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United States  
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Agriculture

Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department  
of Natural Resources



March 1, 1985



## RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Streamflow forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

Snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

# FOR UTAH

## FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

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# PROSPECTIVE WATER SUPPLIES

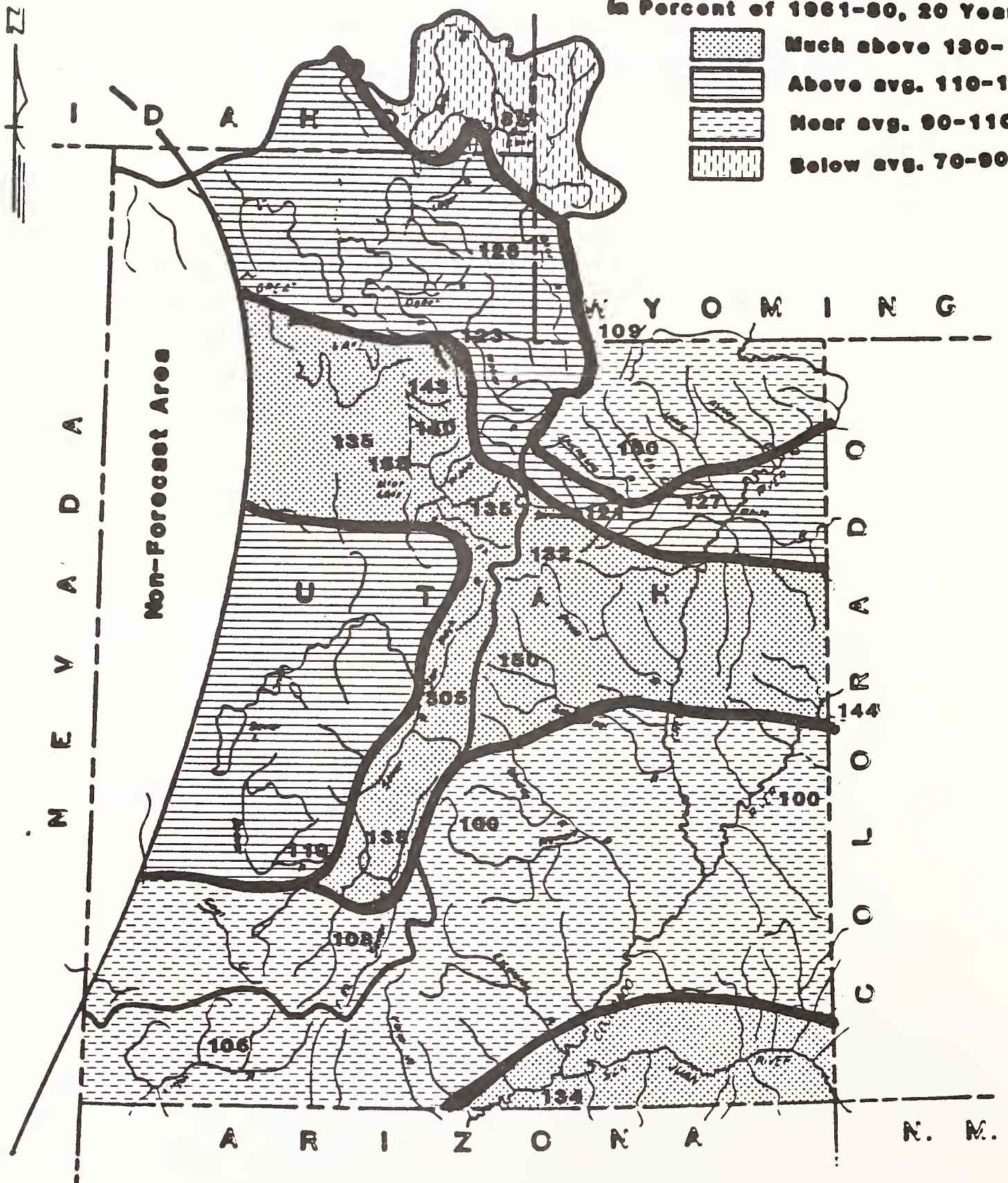
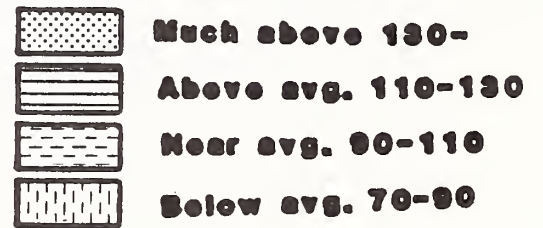
Based on Snow Surveys Made on  
UTAH and BEAR RIVER WATERSHEDS

March 1, 1985

Approximate Date



FORECAST STREAM FLOW  
In Percent of 1961-80, 20 Year Avg.



The President's 1986 budget request to Congress calls for termination of the Snow Survey and Water Supply Forecast activity within the U. S. Soil Conservation Service for fiscal policy reasons. If the President's budget request is enacted by Congress the Snow Survey Program will be eliminated by the end of fiscal year 1986. This action would conclude over 50 years of federally coordinated snow survey effort in the Western U. S..

### As of March 1, 1985

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*
* Utah's 1985 Water Supply Outlook ranges from near
* average to above average. Snow cover varies from about
* 35% below average on the LaSal Mountains to 35% above
* average in the southwestern corner of the state.
* Mountain precipitation was again generally less than
* average but soil moisture is above average. Reservoir
* storage is 133% of average and streamflow forecasts
* range from 20% below average to about three to five
* times average.
*
* * * * *
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### SNOW COVER

Snow measurements about the 1st of March again show a drop compared to average and now range from 64% of the March 1 average on LaSal Mountains to 133% on the Enterprise-New Harmony area. Most snow measurements increased less than half the average increase in the Uinta's and southern Utah and some even showed a slight decrease in water content.

Other basin snow cover percentages are as follows: Bear 101%, Ogden 109%, Weber 106%, Jordan River-Salt Lake 115%, Utah Lake 100%, Duchesne River 105%, Price River 99%, San Rafael River 101%, Fremont River 98%, Escalante River 97%, Upper Sevier River 102%, Lower Sevier River 96%, Beaver River 105%, Virgin River 107%, and Blue Mountains 105% of the March 1 average for the 1961-1980 twenty year period.

### PRECIPITATION

Precipitation at mountain stations was again below average for most areas of the state. A few stations on the east end of the Uintas and on Bear River were average to 30% above average but most stations measured only 30 to 80% of the February average.



## SOIL MOISTURE

Watershed soils are wetter than average again this year except on the east end of the Uinta's and in the southeast corner of the state which are near average.

## RESERVOIR STORAGE

Storage in 27 of Utah's key irrigation reservoirs is now 133% of the March 1, 20 year average and 89% of useable capacity.

The Great Salt Lake is now at 4209.15 feet. This is 2.45 feet higher than last year at this time and only 0.10 feet below last year's peak. The Lake is expected to peak at 4210.5 feet.

Utah Lake is now 2.72 feet above compromise and is expected to peak at 3.20 to 4.00 feet above compromise this year.

## STREAMFLOW FORECASTS

Streamflow forecasts dropped again this month and now range from 80% of average on Thomas Fork of the Bear to 580% for the Vermillion Dam to Gunnison reach of the Lower Sevier. Carryover base flow is again holding Lower Sevier River forecasts much higher than they would normally be from snowmelt runoff.

Individual forecasts are as follows: Bear River near Utah-Wyo. line 118%, at Harer 85%, Logan River 114%, Ogden River 116%, Weber River 116% at Oakley, 123% at Gateway, Parley's Creek 143%, Provo near Hailstone 113%, Utah Lake Inflow 168%, Strawberry Inflow 135%, Duchesne at Duchesne 121%, at Tabiona 105%, at Randlett 128%, Lakefork 100%, Ashley Creek 112%, and Black's Fork 109% of the April-July average.

Price River is forecast 132% for Scofield Inflow and 158% at Heiner, Huntington Creek is forecast 139%, Cottonwood 150%, Ferron 127%, Muddy 119%, and Seven Mile and Mill Creeks 100% of average.

The Sevier River is forecast 108% at Hatch, 133% at Kingston, 305% at Gunnison, Clear Creek 116%, Salina Creek 124%, Chicken Creek 113%, and Chalk Creek 112% of the April-July average.

Beaver River is forecast 119% at Beaver and 145% for Minersville Inflow. Coal Creek is forecast 100%, Virgin near Hurricane 106% and Santa Clara 89% of average.

Water users are expected to have adequate water supplies this season and spring runoff peaks are expected to cause fewer problems than the last two seasons.



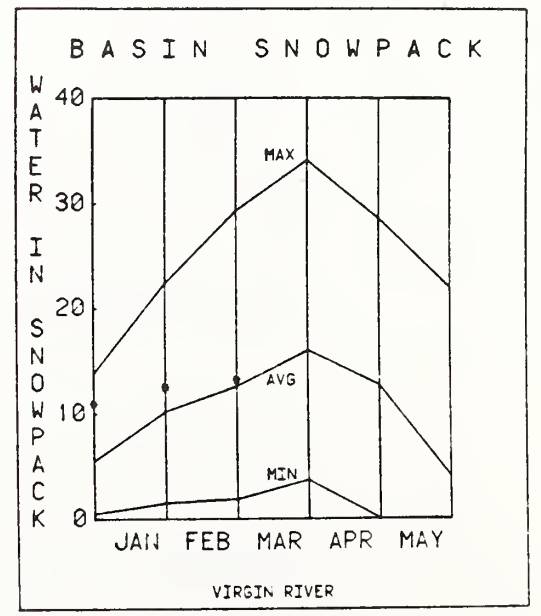
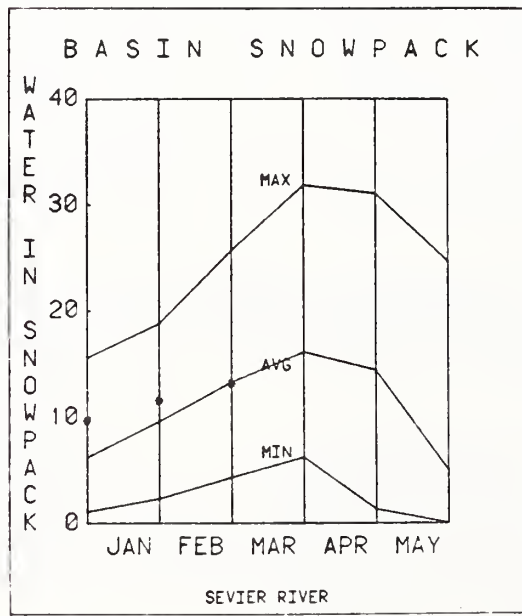
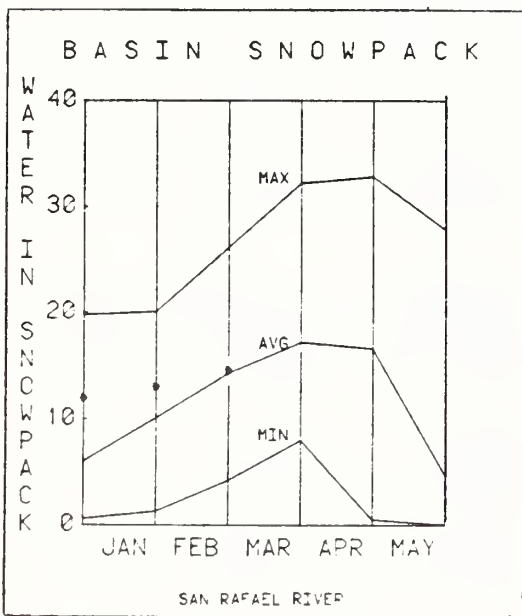
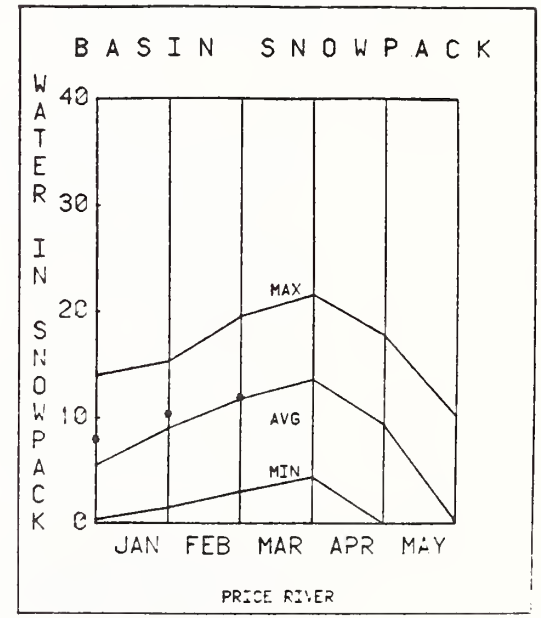
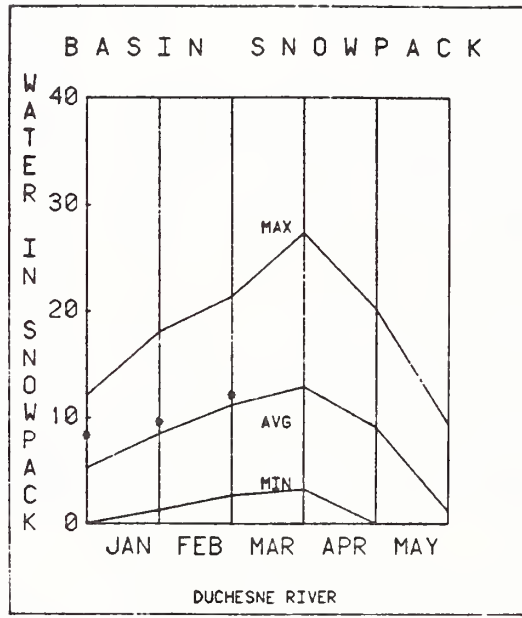
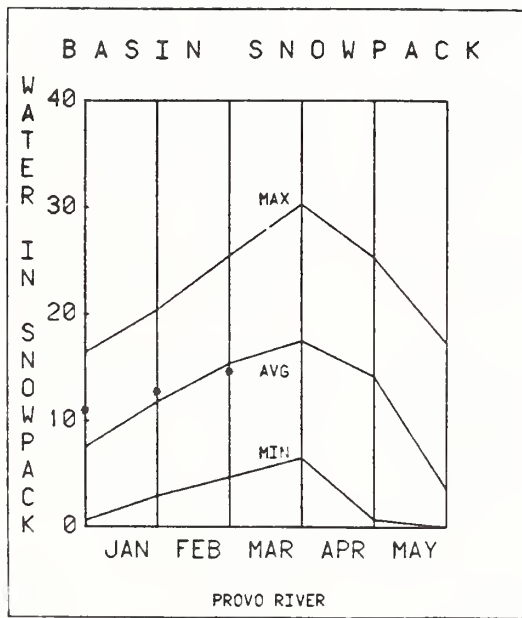
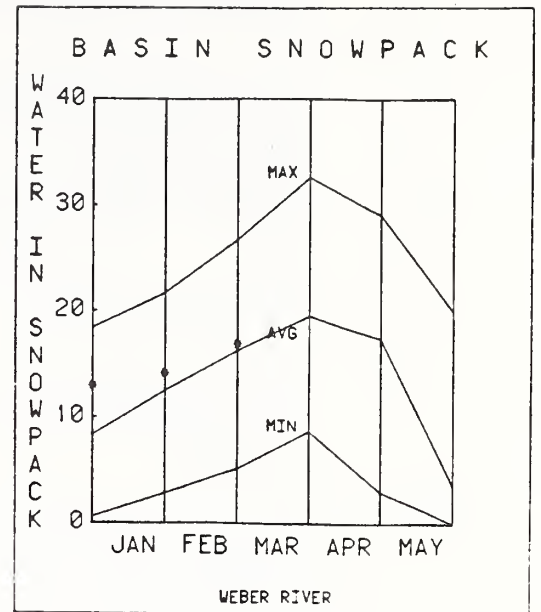
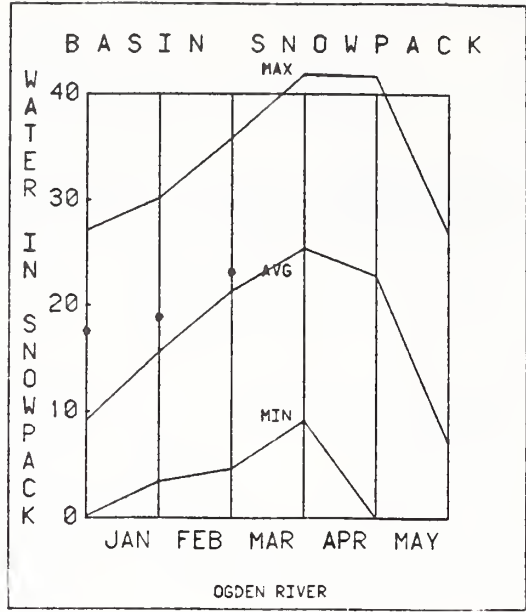
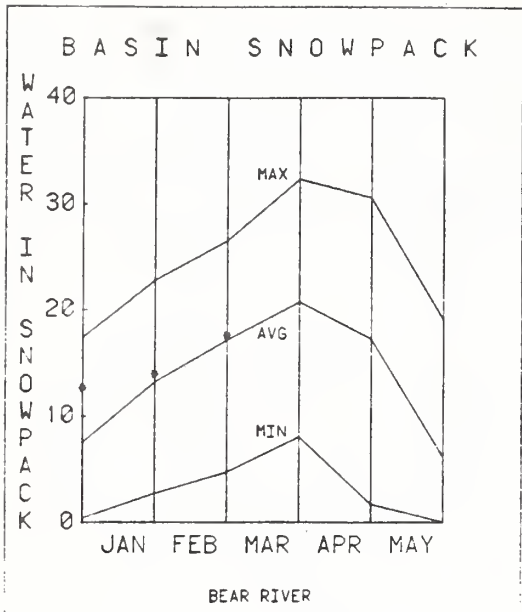
## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1061.2	1077.9	979.6
	Woodruff Narrows	57.3	57.8	55.4	--
	Woodruff Creek	4.0	4.0	3.5	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	23.8	22.5	12.9
<u>Little Bear</u>	Hyrum	15.3	10.3	10.4	10.8
	Porcupine	11.3	4.6	5.0	3.7 <sup>b</sup>
<u>Ogden</u>	Causey	6.9	1.8	1.4	2.3 <sup>b</sup>
	Pineview	110.1	51.4	21.3	48.7 <sup>b</sup>
<u>Provo</u>	Deer Creek	149.7	113.7	123.7	95.5
<u>Settlement Creek</u>	Settlement Creek	1.2	0.0		0.7 <sup>b</sup>
	Vernon Creek	0.6	0.0	0.6	0.5 <sup>b</sup>
<u>Sevier River</u>	Gunnison	18.2	15.0	13.8	14.0 <sup>b</sup>
	Otter Creek	52.5	47.7	49.0	31.2
	Piute	71.8	61.8	57.1	41.5
	Sevier Bridge	236.0	217.2	208.0	119.6
	Panguitch Lake	22.3	20.3	20.6	--
<u>Spanish Fork</u>	Strawberry	270.0	244.0	270.0	142.4
<u>Utah Lake</u>	Utah Lake	883.9	1166.6	1201.8	689.4
<u>Weber</u>	East Canyon	48.1	26.6	20.0	35.6 <sup>b</sup>
	Echo	73.9	43.1	24.8	49.5
	Lost Creek	20.0	13.2	4.4	13.4 <sup>b</sup>
	Rockport	60.9	31.7	27.7	30.2
	Willard Bay	193.3	147.8	121.7	144.7 <sup>b</sup>
COLORADO R. BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	30.2	26.0	21.1 <sup>b</sup>
	Red Fleet	26.0	20.4	18.1	--
<u>Colorado</u>	Blue Mesa	829.5	438.1	375.0	--
	Lake Powell	25002.0	21348.0	21478.0	--
<u>Green</u>	Flaming Gorge	3749.0	3036.5	3151.0	--
<u>Lakefork</u>	Moon Lake	35.8	28.3	29.1	16.8
<u>Price River</u>	Scofield	65.8	51.0	49.8	32.2
<u>San Juan</u>	Navajo	1696.0	1385.2	1352.0	--
	Ken's Lake	2.3	0.6	1.6	--
<u>San Rafael</u>	Huntington North	3.9	4.4	2.8	3.0 <sup>b</sup>
	Joe's Valley	54.6	49.3	49.1	44.6 <sup>b</sup>
	Mill Site	16.7	11.0	13.5	4.0 <sup>b</sup>
<u>Strawberry</u>	Starvation	165.3	126.0	95.1	112.1 <sup>b</sup>
	Soldier Creek	951.4	184.8	61.0	--
	Currant Creek	15.5	7.1	5.1	--
<u>Uintah</u>	Bottle Hollow	11.3	11.3	11.0	10.2 <sup>b</sup>

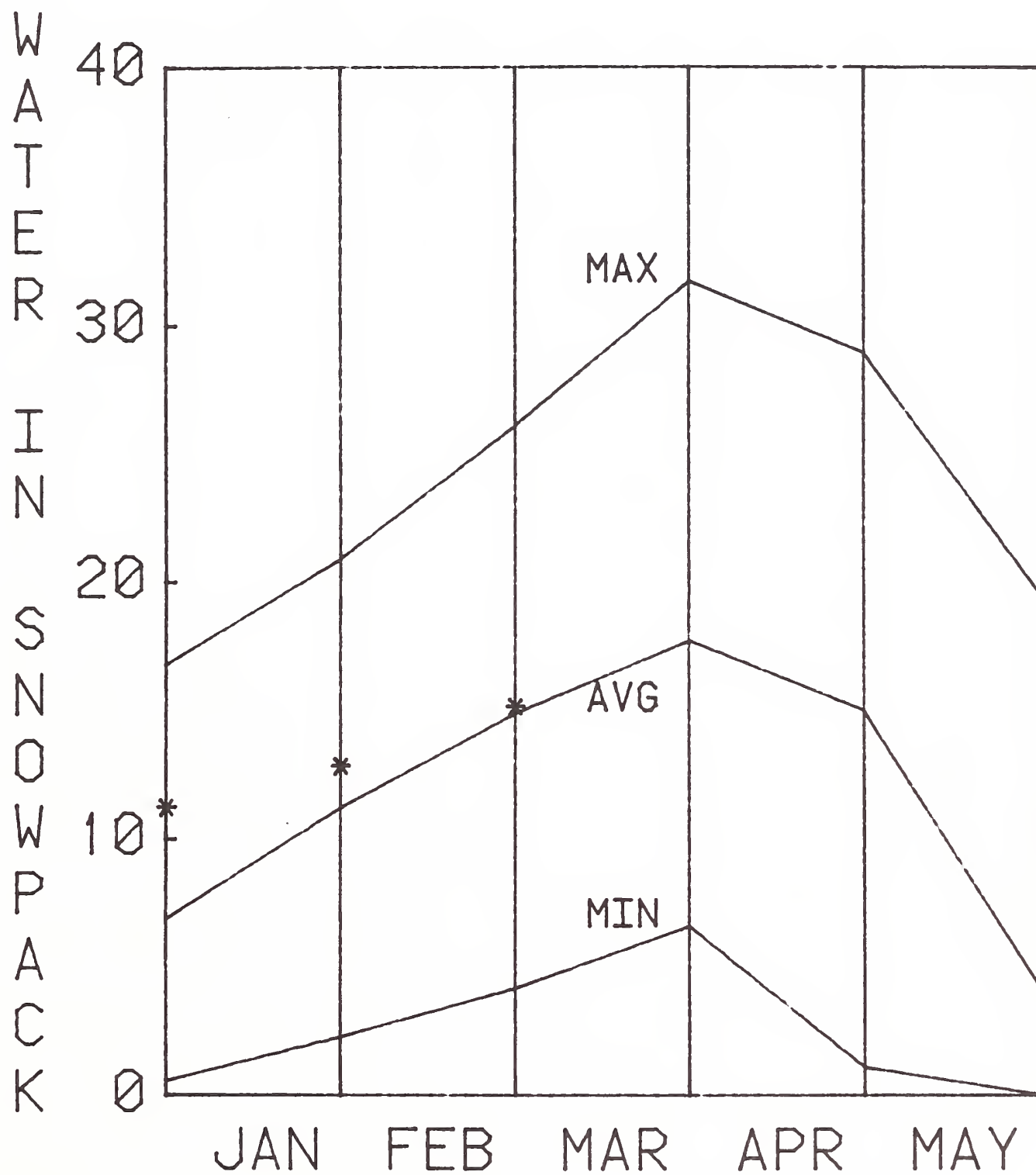
a - Partly estimated

b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period



# B A S I N   S N O W P A C K



UTAH STATEWIDE





UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



Peak flows are expected to be near average this season and all water users should have an adequate water supply.

# BEAR RIVER BASIN IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acres Feet	Percent of Average		Thousand Acre Feet	
				Last Year	Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	130	118	Apr-July	162	110
Bear nr Woodruff 1/	179	128	Apr-July	270	139
Woodruff Crk nr Woodruff, UT	18.8	109	Apr-July		17.3
Big Creek nr Randolph, UT	7.8	147	Apr-July		5.3
Bear nr Randolph 1/	139	126	Apr-July		110
Thomas Fork nr ID-WY State Ln	28	80	Apr-Sept		35
Smith's Fork nr Border, WY	100	84	Apr-Sept		119
Bear at Harer, Idaho 1/	264	85	Apr-Sept		310
Logan nr Logan 1/	133	114	Apr-July	212	116
Blacksmith Fork nr Hyrum	61	120	Apr-July	129	51
Little Bear nr Paradise	39	102	Apr-June	97	38
Cub River nr Preston, ID	42	91	Apr-July		52

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
BEAR RIVER	16	78	101
UPPER BEAR RIVER	5	86	97
LOWER BEAR RIVER	11	75	103
LOGAN RIVER	7	78	101
RAFT RIVER	4	60	78
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow † - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
BEAR RIVER	Bear Lake	1421.0	1061.2	1077.9	979.6
	Woodruff Narrows	55.8	57.8	55.4	--
	Woodruff Creek	3.5	4.0	3.5	--
LITTLE BEAR	Hyrum	15.3	10.3	10.4	10.8
	Porcupine	11.3	4.6	5.0	3.7 <sup>b</sup>

## PEAK FLOWS<sup>c</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Bear nr. Ut.-Wyo. Stateline	1450-2195	1506
Woodruff Creek nr Woodruff	230-375	253
Big Creek nr Randolph	65-105	48 <sup>b</sup>
Logan River nr Logan	770-1355	980
Little Bear nr Paradise	390-712	519

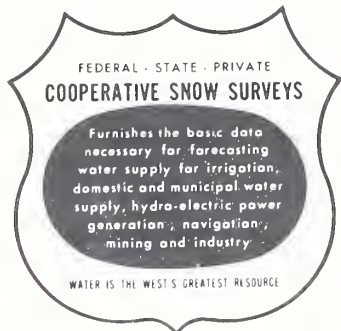
## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
NAME					
Burts-Miller Ranch	2/26	20	4.0	4.7	4.7
Cub River R.S.	2/25	33	8.3	14.5	8.6
Emigrant Summit	2/25	65	19.9	29.3	21.9
Franklin Basin	2/25	66	21.9	26.7	21.7
Garden City Summit	2/25	58	17.4	21.4	15.5
Hayden Fork	2/26	48	13.3	15.9	13.4
Klondike Narrows	2/25	57	18.1	22.9	17.5

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
NAME					
Little Bear Lower	2/24	38	10.5	14.6	9.3
Little Bear Upper	2/24	47	13.7	18.0	11.0
Monte Cristo	2/24	65	22.2	26.2	22.1
Salt River Summit	2/28	48	11.8	13.9	14.5
Stillwater Camp	2/26	38	8.7	9.9	8.9
Tony Grove R.S.	2/25	45	12.3	16.8	11.1

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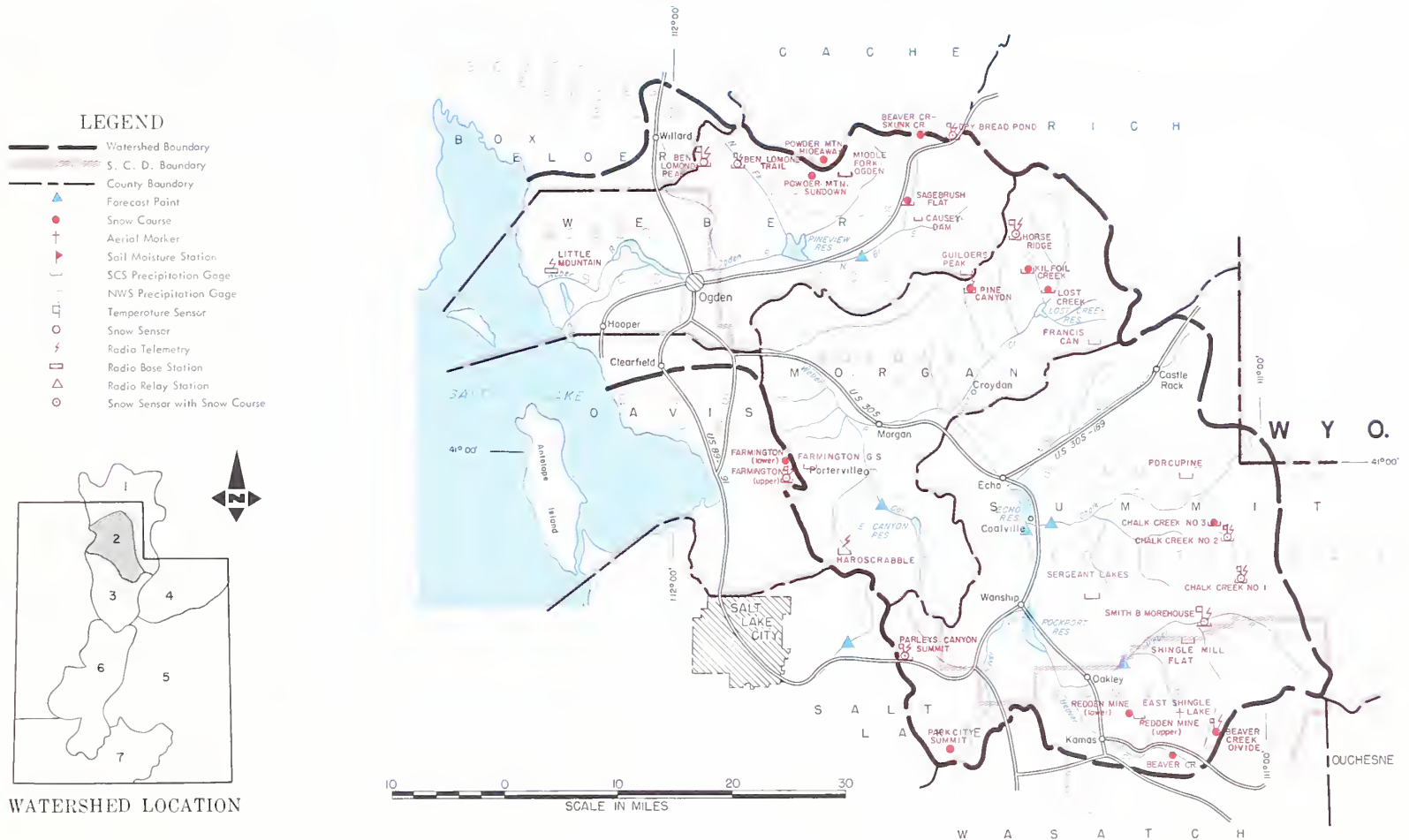
*"The Conservation of Water begins with the Snow Survey"*



# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

**SNOW COVER** dropped 12 and 9% respectively and is now 109% of the March 1 average on the Ogden and 106% on Weber Basin. Ogden River snow cover is 30% less than last year and Weber Basin 22% less than last year on March 1st.

**PRECIPITATION** at mountain stations ranged from 69% of the February average at Parley's Summit to 105% at Monte Cristo R.S. Most areas were 75 to 90% of average.

**SOIL MOISTURE** is well above average.

**RESERVOIR STORAGE** in most reservoirs has been drawn down to provide space for spring runoff and are now 97% of the March 1 average.

**STREAMFLOW FORECASTS** dropped as much as 7% due to below average increases to the basin snow pack and now range from 113% of the April-July average on Farmington Creek to 157% of the April-June average on East Canyon Creek. Other forecasts are as follows: S. Fork Ogden 116%, Pineview Inflow 117%, Weber near Oakley 116%, Rockport Inflow 118%, near Coalville 119%, Chalk Creek 118%, Lost Creek 141%, Hardscrabble 141%, Echo Inflow 123%, and Weber at Gateway 123% of the April-June average. Peak flows are expected to be in the near average range this season and all water users are expected to have adequate water supplies assuming near average precipitation for the remainder of the snow melt season.

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEBER-OGDEN RIVERS					
Weber nr Oakley	118	116	Apr-June	156	102
Rockport Reservoir Inflow 1/	131	118	Apr-June	191	111
Chalk Creek at Coalville	43	118	Apr-June	78	36
Weber nr Coalville 1/	141	119	Apr-June	202	119
Lost Creek nr Croydon, UT 1/	22	141	Apr-June	37	15.6
East Canyon Creek nr Morgan 1/	40	157	Apr-June	63	25
Hardscrabble Crk nr Porterville	26	141	Apr-June	--	18.4
S. Fork Ogden nr Huntsville 1/	66	116	Apr-June	111	57
Pineview Reservoir Inflow 1/	134	117	Apr-June	309	115
Echo Reservoir Inflow 2/	178	123	Apr-June	235	145
Weber at Gateway 1/	371	123	Apr-June	650	300
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	9.3	113	Apr-July	--	8.2

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	6	70	109
WEBER RIVER	14	78	106
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
OGDEN	Causey	6.9	1.8	1.4	2.3 <sup>b</sup>
	Pineview	110.1	51.4	21.3	48.7 <sup>b</sup>
WEBER	East Canyon	48.1	26.6	20.0	35.6 <sup>b</sup>
	Echo	73.9	43.1	24.8	49.5
	Lost Creek	20.0	13.2	4.4	13.4 <sup>b</sup>
	Rockport	60.9	31.7	27.7	30.2
	Willard Bay	193.3	147.8	121.7	144.7 <sup>b</sup>

PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
South Fork Ogden nr Huntsville	640-1130	763
Chalk Creek nr Coalville	445-786	510
Weber nr Oakley	1370-2060	1540

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Beaver Creek R.S.	2/26	31	7.6	10.5	7.8
Beaver Creek-Skunk Creek	2/24	38	12.2	16.3	11.2
Ben Lomond Peak	2/24	96	32.4	54.5	31.4
Ben Lomond Trail	2/24	67	21.7	28.8	15.8
Chalk Creek #1	2/26	65	19.1	23.1	18.1
Chalk Creek #2	2/26	48	12.4	14.5	12.2
Chalk Creek #3	2/26	30	7.5	8.0	6.7
Dry Bread Pond	2/24	54	16.3	22.1	16.2
Farmington Upper	2/24	81	28.4	40.1	25.6

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Horse Ridge	2/24	57	18.3	25.8	18.9
Lost Creek Reservoir	2/24	24	5.9	8.9	5.5
Monte Cristo	2/24	65	22.2	26.2	22.1
Parleys Canyon Summit	2/27	55	16.8	23.1	15.9
Sagebrush Flat	2/24	24	5.6	9.2	4.8
Smith & Morehouse	2/26	42	11.9	14.4	11.4
Trial Lake	2/26	64	19.4	22.3	20.8

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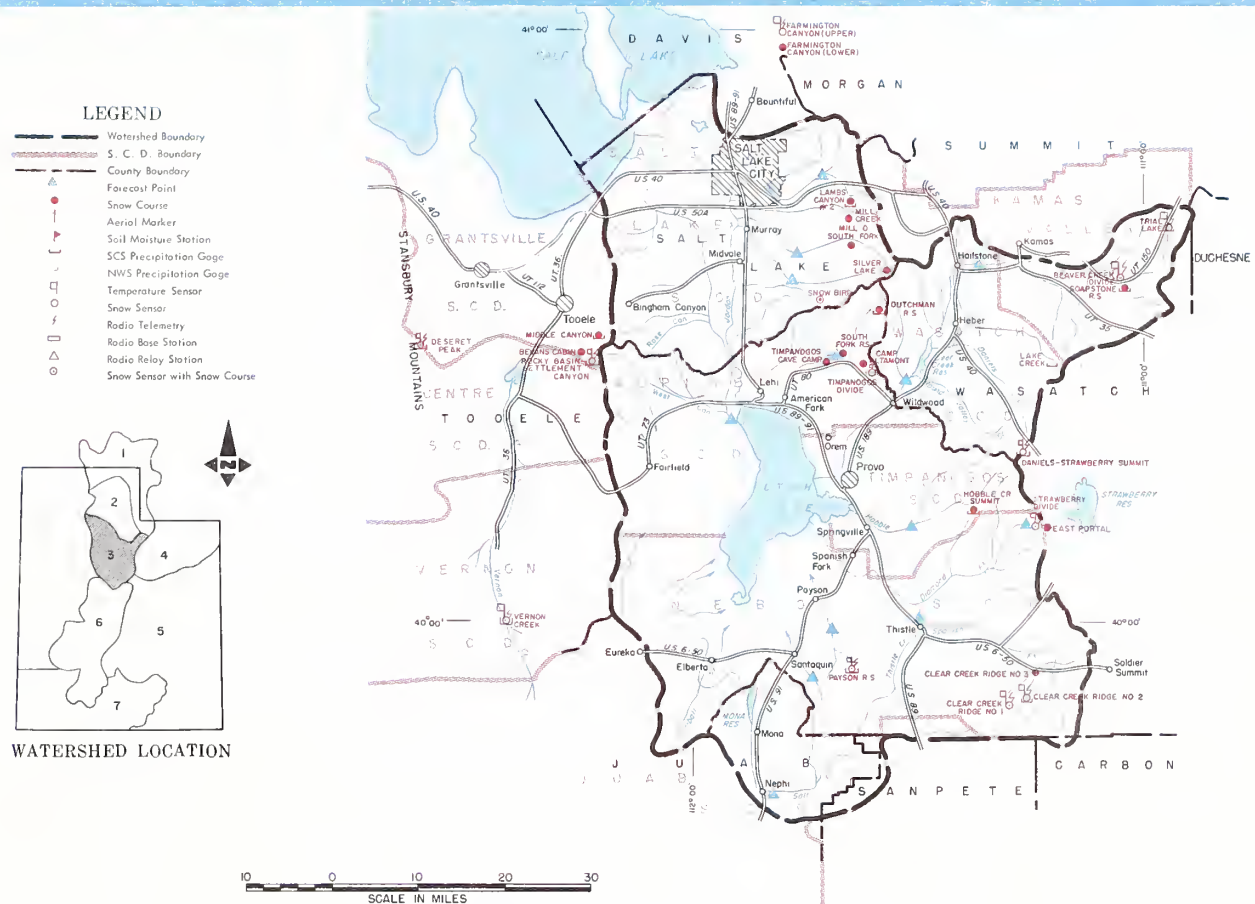
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



**MARCH 1, 1985**  
**THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE**

**SNOW COVER** dropped as much as 24% of average during February and now ranges from 94% of the March 1 average on Provo River to 120% for Tooele Valley-Vernon Creek. Jordan River-Salt Lake is now 110% and Utah Lake drainages 100% of the March 1 average. These areas range 12 to 35% less than last year at this time.

**PRECIPITATION** at mountain stations ranged from 55% of the February average at Hobbler Creek Summit to 165% at Clear Creek #2, Clear Creek #2 was the only site above average in this area.

**SOIL MOISTURE** is above average.

**RESERVOIR STORAGE** is still above average but less than last year at this time. Strawberry is still draining into Soldier Creek. The two levels should equalize by April 1st. Utah Lake is 2.72 feet over compromise and Great Salt Lake is now 4,209.15 feet above sea level or 2.45 feet higher than last year on March 1.

**STREAMFLOW FORECASTS** now range from, 113% of the April-July average for Provo near Hailstone to 168% for Utah Lake Inflow. Most forecasts dropped 2 to 18% and are now as follows: Payson Creek 119%, Spanish Fork 142%, Hobbler Creek 150%, Provo below Deer Creek Dam 125% and Americal Fork 122%. Streams along the Salt Lake Front are forecast from 120 to 143% of average and those in Tooele Valley 133 to 138% of average. Peak flows are expected to be in the near average range and are expected to cause damage only around Utah Lake and Great Salt Lake is normal temperature and precipitation occurs during the snow melt season. All water users are expected to have adequate water supplies this season.



# UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST *		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	120	113	Apr-July	176	106
Provo below Deer Creek Oam1/	150	125	Apr-July	--	118
American Fork nr American Fk	38	122	Apr-July	--	31
Hobble Creek nr Springville	26	150	Apr-July	--	18.7
Strawberry Reservoir Inflow1/	72	135	Apr-July	87	53
Spanish Fork at Thistle	57	142	Apr-July		40
Payson Creek nr Payson	7.4	119	Apr-July		6.2
Utah Lake Inflow	400	168	Apr-July		238
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	46	120	Apr-July	61	38
Big Cottonwood nr SLC	52	140	Apr-July	59	37
Parley's Creek nr SLC	21	143	Apr-July	38	14.8
Mill Creek nr SLC	8.3	141	Apr-July	14.5	5.8
Emigration Creek nr SLC	5.1	138	Apr-July	11.7	3.7
City Creek nr SLC	9.4	120	Apr-July	18.0	7.7
TOOELE VALLEY					
Settlement Crk nr Tooele	3.1	135	Apr-July	--	2.3
S. Willow Crk nr Grantsville	4.0	133	Apr-July	6.6	3.0
Vernon Creek nr Vernon	1.1	138	Apr-June	3.1	1.2

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauging Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
UTAH LAKE	9	79	100
PROVO RIVER	5	88	94
JORDAN RIVER & SALT LAKE	5	81	110
TOOELE VALLEY & VERNON CREEK	2	65	120
1 - Observed flow corrected for change in storage and diversions 3 - Provisional flows - subject to correction a - Partly estimated b - Average of past record - less than 20 years + - 1961-80 20 year average period e - Maximum mean daily peak flow * - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SPANISH FORK	Strawberry	270.0	244.0	270.0	142.4
UTAH LAKE	Utah Lake	883.9	1166.6	1201.8	689.4
	Settlement Creek	1.2	0.0	--	0.7 <sup>b</sup>
	Vernon Creek	0.6	0.0	0.6	0.5 <sup>b</sup>
PROVO	Oer Creek	149.7	113.7	123.7	95.5

## PEAK FLOWS <sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Cottonwood nr Salt Lake City	400-550	442
Little Cottonwood nr Salt Lake City	350-550	384
Provo Near Hailstone	1500-2000	2128
Spanish Fork nr Thistle	500-700	451 <sup>b</sup>
American Fork nr American Fork	330-470	329
Mill Creek nr Salt Lake City	55-75	59
Parley's Creek nr Salt Lake City	150-220	153
City Creek nr Salt Lake City	65-95	75
Emigration	40-65	--

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Bevans Cabin	2/27	36	9.8	--	8.3
Clear Creek #1	2/25	54	16.8	21.1	16.3
Clear Creek #2	2/25	45	12.6	15.6	12.2
Clear Creek #3	2/25	30	8.0	10.5	7.5
Oaniels-Strawberry Summit	2/25	49	15.5	15.8	12.9
Deseret Peak			NOT MEASURED		
Hobble Creek Summit	2/25	48	13.4	19.0	12.8
Lamb Canyon #2	2/27	50	16.9	20.0	13.8
Middle Canyon	2/27	45	13.0	--	11.9
Mill Creek	3/1	55	16.8	21.9	16.1 <sup>a</sup>

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Mill O South Fork	3/1	55	18.2	22.9	17.0
Parley's Canyon Summit	2/27	55	16.8	23.1	15.9
Payson R.S.	2/22	54	17.0	24.6	16.4
Rocky Basin-Settlement	2/27	69	23.4	39.0	20.4
Silver Lake Brighton	2/26	69	22.6	25.0	20.4
Soapstone R.S.	2/26	38	10.2	13.1	11.3
Timpanogos Divide	3/1	61 <sup>a</sup>	19.6 <sup>a</sup>	21.3	22.1
Trial Lake	2/26	64	19.4	22.3	20.8
Vernon Creek	3/1	43 <sup>a</sup>	11.7 <sup>a</sup>	14.9 <sup>a</sup>	8.9 <sup>a</sup>

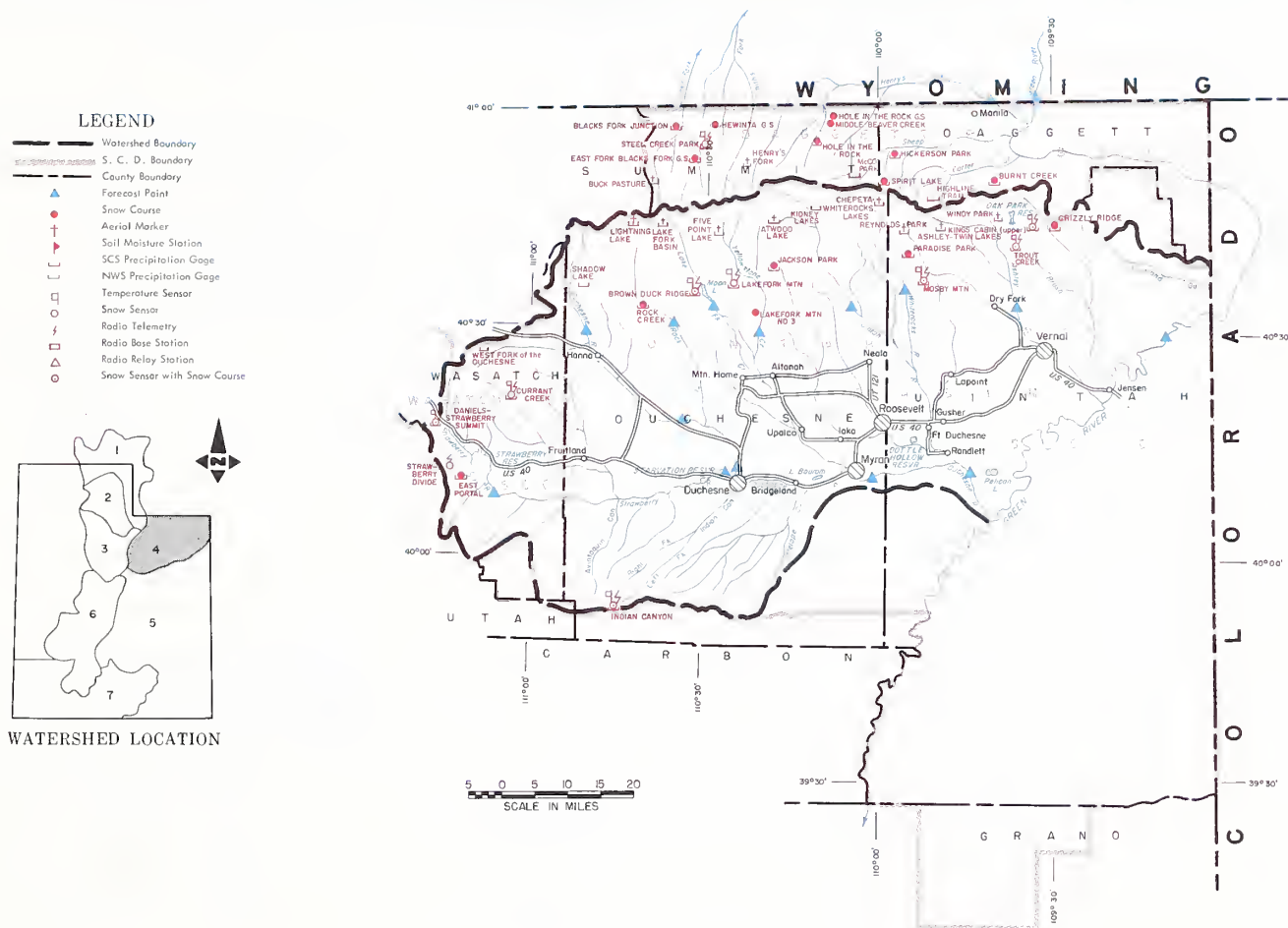
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# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1985

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER dropped again this month on all basins except Strawberry River and Sheep Creek and now ranges from 79% of the March 1 average on Sheep Creek (+4%) to 114% on Strawberry River (+3%). Black's Fork is 95% (-7%), Ashley Creek 91% (-11%), Uinta-Whiterocks 95% (-30%), and Lakefork-Yellowstone Creeks 96% (-25%) of the March 1 average for the 1961-1980 20 year period.

PRECIPITATION at mountain stations ranged from 23% of the February average at Black's Fork Junction to 133% at Hickerson Park.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS dropped 3 to 32% and now range from 100% of the April-July average on Lakefork and Yellowstone Creeks to 128% for Duchesne at Randlett. Other forecasts are as follows: Duchesne at Tabiona 105%, at Duchesne 106%, at Myton 127%, and West Fork Duchesne 104% of average. Curreant Creek 125%, Strawberry 121%, Rock Creek 106%, Uinta and Whiterocks 110%, Ashley Creek 112%, Henry's Fork 115% and Black's Fork 109% of the April-July average. Peak flows are expected to be in the near average range during the snow melt period assuming average temperature and precipitation during the remainder of the spring and early summer runoff period. All water users are expected to have adequate water supplies this season.



# UINTAH BASIN AND DAGGETT SCD's IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST *		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	110	105	Apr-July	139	105
Duchesne at Duchesne 1/	200	106	Apr-July	--	189
Strawberry at Duchesne	70	121	Apr-July	--	58
Rock Creek nr Mtn. Home	99	106	Apr-July	116	93
Current Creek nr Fruitland	25	125	Apr-July	53	20
Lakefork below Moon Lake 1/	70	100	Apr-July	81	70
Yellowstone nr Altonah	68	100	Apr-July	68	65
Duchesne at Myton 1/	260	127	Apr-July	347	205
Whiterocks nr Whiterock	64	110	Apr-July	59	58
Uintah nr Neola	96	110	Apr-July	--	86
Duchesne at Randlett 1/	330	128	Apr-July	--	257
West Fork Duchesne at Hanna	27	104	Apr-July	--	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	55	115	Apr-Sept	94	48
Black's Fork nr Millburne	98	109	Apr-July	123	90
Flaming Gorge Inflow 1/	1100	88	Apr-July	--	1248
Ashley Creek nr Vernal	57	112	Apr-July	62	51

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
DUCHESNE RIVER - TOTAL	10	96	105
LAKEFORK-YELLOWSTONE CREEKS	4	89	96
STRAWBERRY RIVER	3	103	114
UINTAH - WHITEROCKS RIVERS	3	90	95
ASHLEY CREEK	3	87	91
BLACK'S FORK	3	78	95
SHEEP CREEK	2	69	79
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Red Fleet	26.0	20.4	18.1	--
	Steinaker	33.3	30.2	26.0	21.1 <sup>b</sup>
GREEN RIVER	Flaming Gorge	3749.0	3036.5	3151.0	--
LAKE FORK	Moon Lake	35.8	28.3	29.1	16.8
STRAWBERRY	Current Creek	15.5	7.1	5.1	--
	Starvation	165.3	126.0	95.1	112.1 <sup>b</sup>
	Soldier Creek	951.4	184.8	61.0	--
UINTAH	Bottle Hollow	11.3	11.3	11.0	10.2 <sup>b</sup>

## PEAK FLOWS <sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry at Duchesne	600-950	675
Ashley Creek nr Vernal	750-1250	966
Rock Creek nr. Mtn. Home	1225-1695	1415

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Brown Duck Ridge	2/25	61	16.4	19.5	15.8
Burnt Creek	2/28	20	1.8	5.0	4.3
Current Creek	2/25	41	11.1	10.5	9.6
Daniels-Strawberry	2/25	49	15.5	15.8	12.9
Grizzly Ridge	2/28	36	8.1	9.8	9.5
Hewinta G. S.	2/26	31	6.7	9.8	7.5
Hickerson Park	2/26	30	5.2	--	5.4
Jackson Park	2/25	44	10.1	11.9	11.8
Kings Cabin Upper	2/26	34	7.1	9.4	8.5

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Lakefork Mountain #1	2/25	37	8.5	9.8	9.5
Mosby Mountain	2/27	34	7.7	8.4	8.4
Paradise Park	2/26	45	11.6	12.3	10.9
Rock Creek Ranch	2/25	30	8.1	7.5	6.5
Spirit Lake	2/26	45	9.6	11.5	10.1
Steel Creek Park	2/26	53	12.2	15.9	13.1
Strawberry Divide	3/1	55	17.0	23.0	16.8
Trout Creek	2/26	41	8.8	8.3	8.5

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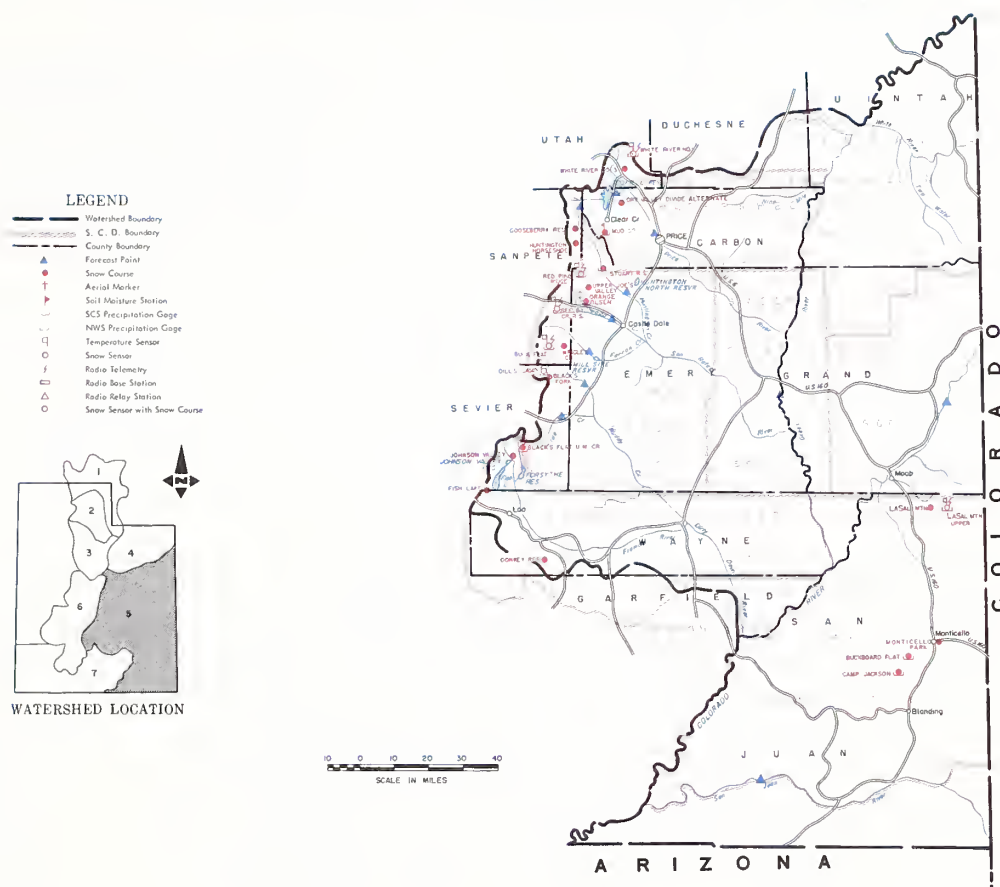
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1985

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE TO ABOVE AVERAGE

**SNOW COVER** generally dropped 11 to 28% of average during February except on Blue Mountains which increased 3%. Snow cover now ranges from 64% of the March 1 average on LaSal Mountains to 105% on Blue Mountains. Price River is 99%, San Rafael 101%, Muddy 86%, and Fremont 98% of the March 1 average.

**PRECIPITATION** at mountain stations varied from 55% of the February average at Buck Flat to 125% at Fish Lake. Most stations were below average for the month.

**SOIL MOISTURE** is above average.

**RESERVOIR STORAGE** is above average.

**STREAMFLOW FORECASTS** dropped as much as 20% during February and now range from average to 50% above average for the April-July period. Individual forecasts are as follows: Gooseberry Creek 126%, Scofield Inflow 132%, Price near Heiner 158%, Huntington Creek 139%, Cottonwood Creek 150%, Ferron Creek 127%, Muddy Creek 119%, Seven Mile Creek 100% and Mill Creek 100%. The Colorado is forecast 144% near Cisco, Green River 103% near Green River and the San Juan 136% near Bluff. Peak flows are expected to be 30 to 50% above average and property close to streams should be practiced. All water users are expected to have adequate water supplies this season.

## CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ±		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year 3	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	13.5	126	Apr-July	--	10.7
Scofield Reservoir Inflow	50	132	Apr-July	--	38
Price nr Heiner 1/	100	158	Apr-July	--	63
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	68	139	Apr-July	--	49
Cottonwood Crk nr Orangeville	70	150	Apr-July	171	47
Ferron Creek nr Ferron	47	127	Apr-July	80	37
MUDDY CREEK					
Muddy Creek nr Emery	22	119	Apr-July	46	18.5
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	4450	144	Apr-July	--	3046
Green at Green River, UT	3100	103	Apr-July	--	3016
Mill Creek nr Moab	5.5	100	Apr-July	18.7	5.5
Navajo Reservoir Inflow	930	128	Apr-July	--	684
San Juan nr Bluff, UT	1350	136	Apr-July	--	995
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	6.5	100	Apr-July		6.5 <sup>b</sup>

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
PRICE RIVER	4	71	99
SAN RAFAEL RIVER	8	61	101
FREMONT RIVER	3	50	98
LASAL MOUNTAINS	2	45	64
BLUE MOUNTAINS	2	110	105
MUDDY RIVER	2	55	86

1 - Observed flow corrected for change in storage and diversions  
2 - Inflow record as computed by U. S. Bureau of Reclamation  
3 - Provisional flows - Subject to Correction  
a - Partly estimated  
b - Average of all past record - less than 20 years  
e - Maximum mean daily peak flow  
+ - 1961-80 20 year Average Period  
\* - Forecast in cooperation with National Weather Service

PEAK FLOWS <sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	510-670	444
Muddy Creek near Emery	230-290	168
Huntington Cr. near Huntington	700-900	516 <sup>b</sup>

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	51.0	49.8	32.2
SAN RAFAEL	Huntington North	3.9	4.4	2.8	3.0 <sup>b</sup>
	Joe's Valley	54.6	49.3	49.1	44.6 <sup>b</sup>
	Mill Site	16.7	11.0	13.5	4.0 <sup>b</sup>
SAN JUAN	Navajo	1696.0	1385.2	1352.0	--
	Kens Lake	2.3	0.6	1.6	--

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Buck Flat	2/24	48	14.2	22.8	14.4
Buckboard Flat	2/27	46	11.4	11.5	11.2
Camp Jackson	2/27	48	12.4	10.1	11.5
Dills Camp	2/24	34	9.0	15.1	--
Dry Valley Divide Alternate	2/24	38	10.8	14.5	11.2
Huntington-Horseshoe	2/24	54	18.4	31.8	19.9
Indian Canyon	2/25	43	11.3	10.5	10.7
LaSal Mtn. Upper	2/28	44	9.2	17.2	12.4
Mammoth-Cottonwood R.S.	2/24	54	18.3	27.8	18.1

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Monticello City Park				1.6	2.4
Mud Creek	2/24	43	12.0	17.1	11.8
Red Pine Ridge	2/24	48	15.2	24.0	14.7
Seeley Creek	2/24	45	14.6	28.2	13.9
Stuart R.S.	2/24	28	7.8	13.5	8.7
Upper Joe's Valley	2/24	37	11.1	15.4	9.3
White River #1	2/25	42	12.0	16.0	11.9
White River #3	2/25	28	7.6	12.3	7.9
Wrigley Creek	2/24	38	9.1	13.9	9.7

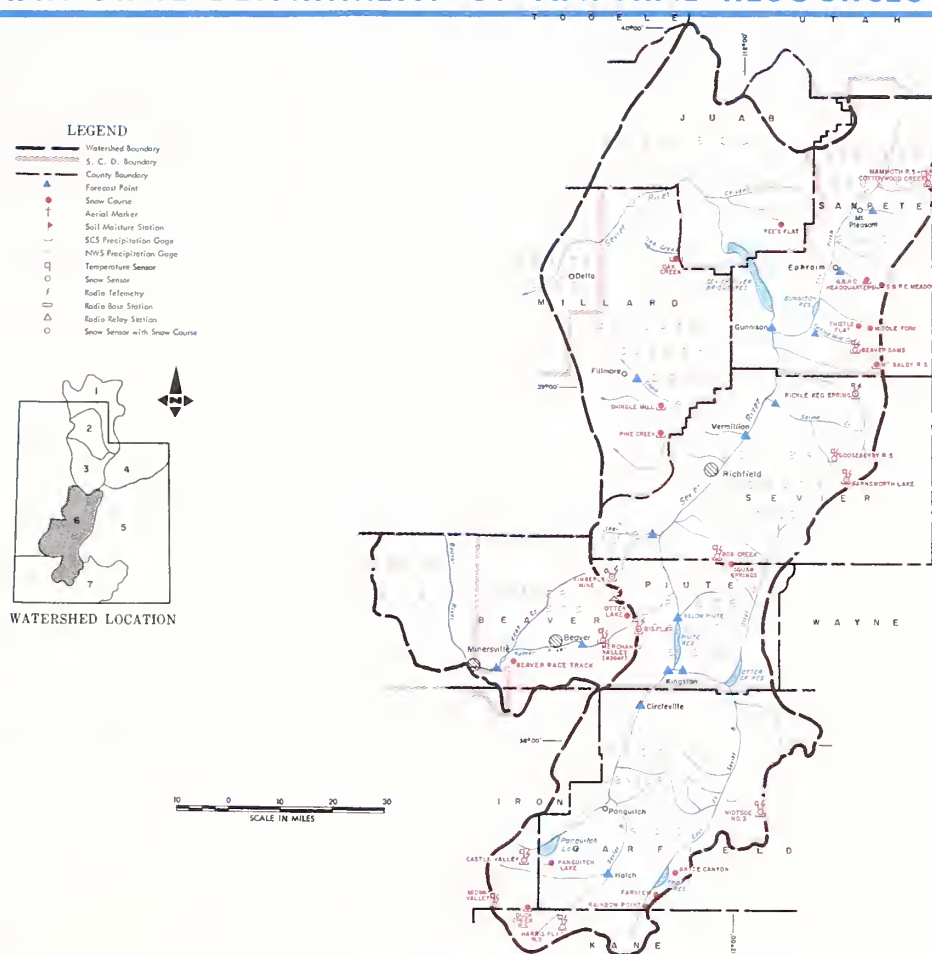
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# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1985

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER dropped 12 to 31% of average and now ranges from 96% on the East Fork and Lower Sevier to 105% on the South Fork Sevier and Beaver Rivers.

PRECIPITATION at mountain stations ranged from 45% of the February average at Widtsoe-Escalante #3, to 124% at Mammoth-Cottonwood on the San Pitch River.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECAST dropped as much as 87% on the Lower Sevier during February and now range from 107% of average on Antimony Creek to 580% for Vermillion Dan to Gunnison.

Other forecasts are as follows: Sevier River at Hatch 108%, Circleville 146%, Kingston 133%, East Fork 116%, Clear Creek 116%, Salina Creek 124%, Sevier near Gunnison 305%, Ephriam Creek 128% and Pleasant Creek 122%. Chalk Creek near Fillmore is forecast 112%, Oak Creek 119%, Chicken Creek 113% and Salt Creek 115% of average. Beaver River is forecast 119%, North Creeks 121%, and Minersville Inflow 145% of the April-June average.

Peak flows are expected to be in the near average range and all water users are expected to have adequate water supplies this season assuming near average conditions for the runoff season.



**SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH**

**STREAMFLOW FORECASTS**

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST *		PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ‡	Average †
SEVIER RIVER					
Sevier at Hatch	52	108	Apr-July	46	48
Sevier nr Circleville	46	146	Apr-July	--	38
Sevier nr Kingston	38	133	Apr-July	--	28
Antimony Crk nr Antimony	11	107	Apr-July	--	10.3
East Fork Sevier nr Kingston	22	116	Apr-July	--	18.9
Sevier below Piute Dam	62	138	Apr-July	--	45
Clear Crk nr Sevier (abv Div)	22	116	Apr-July	--	18.9
Sigurd to Gunnison	140	530	Apr-July	--	26
Kingston to Vermillion Dam	62	138	Apr-June	--	45
Vermillion Dam to Gunnison	145	410	Apr-June	--	35
Salina Creek at Salina	14.7	124	Apr-June	--	11.9
Sevier nr Gunnison	165	305	Apr-July	--	54
Chalk Creek nr Fillmore	18.4	112	Apr-July	--	16.4
Chicken Creek nr Levan	4.0	113	Apr-July	--	3.5
Oak Cr. nr Oak City	1.9	119	Apr-July	3.5	1.6
Ephraim Creek nr Ephraim	19.0	128	Apr-July	--	14.9
Pleasant Crk nr Mt. Pleasant	10.5	122	Apr-July	--	8.6
Salt Creek nr. Nephi	15.5	115	Apr-July	--	13.5
Beaver nr Beaver	27	119	Apr-July	52	23
North Creek (Combined)	17.7	121	Apr-July	--	14.6
Minersville Inflow	12.9	145	Apr-June	--	8.9

**SUMMARY of SNOW MEASUREMENTS** (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
UPPER SEVIER RIVER	11	97	102
East Fork Sevier	4	74	96
South Fork Sevier	7	111	105
LOWER SEVIER	12	57	96
BEAVER RIVER	3	66	105

1 - Observed flow corrected for change in storage and diversions  
2 - Inflow record as computed by U. S. Bureau of Reclamation  
3 - Provisional flows - Subject to Correction  
a - Partly estimated  
b - Average of all past record - less than 20 years  
e - Maximum mean daily peak flow  
+ - 1961-80 20 year Average Period  
\* - Forecast in cooperation with National Weather Service

**RESERVOIR STORAGE** (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SEVIER RIVER	Gunnison	18.2	15.0	13.8	14.0 <sup>b</sup>
	Otter Creek	52.5	47.7	49.0	31.2
	Piute	71.8	61.8	57.1	41.5
	Sevier Bridge	236.0	217.2	208.0	119.6
	Panguitch Lake	22.3	20.3	20.6	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	23.8	22.5	12.9

**PEAK FLOWS** <sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Beaver River nr Beaver	180-445	257
Sevier River at Hatch	450-600	484
Sevier River nr Kingston	370-560	312
Clear Creek nr Sevier	240-340	226
Salina Creek nr Salina	200-400	285

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Big Flat	2/22	55	14.9	23.8	14.0
Bryce Canyon	2/28	20	4.6	4.4	4.7
Castle Valley	2/22	36	10.5	14.1	11.5
Duck Creek	2/23	42	11.9	7.8	12.4
Farnsworth Lake	2/24	53	15.4	24.4	15.3
Gooseberry R.S.	2/24	35	8.4	16.5	10.1
Harris Flat	2/23	32	9.0	4.1	8.4
Kimberly Mine	2/22	53	14.0	19.7	12.8

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Long Valley Junction	2/23	17	6.5	0.9	5.3
Merchants Valley Upper	2/22	43	11.4	16.3	11.1 <sup>b</sup>
Midway Valley	2/23	61	20.5	16.4	18.4
Oak Creek	2/22	39	9.5	16.8	13.1
Otter Lake	2/22	44	11.9	17.5	11.2
Pickle Keg Springs	2/24	41	11.8	25.7	13.2
Pine Creek	2/22	47	13.9	27.2	13.5
Widtsøe-Escalante #3	2/23	38	9.3	8.7	9.6

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# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



### THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

**SNOW COVER** dropped 13 to 27% of average and now ranges from 87% of the March 1 average on Parowan Creek to 133% in the Enterprise-New Harmony area. Coal Creek is now 98% of average, Escalante River is 97%, and Virgin River 107% of the March 1 average.

**PRECIPITATION** at mountain stations ranged from 38% of the February average at Webster Flat to 66% at Duck Creek Ranger Station.

**SOIL MOISTURE** is above average on most of the higher elevations.

**RESERVOIR STORAGE** in Gunlock Reservoir is now 7,200 acre feet, or almost full, and Quail Creek is beginning to store water but is not up above the required amount for fishery and therefore has no useable water for irrigation. Enterprise reservoirs are reported less than half full.

**STREAMFLOW FORECASTS** dropped again this month and now range from 89% of the April-June average for the Santa Clara to 134% for Lake Powell Inflow. The Virgin is forecast 106% of average and Coal Creek 100% of average. Peak flows are expected to be near on Coal Creek and below average on the Virgin assuming near average temperature and precipitation for the remainder of the runoff season. Water users are expected to have an adequate water supply this season.

## EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
VIRGIN RIVER					
Virgin nr Hurricane	51	106	Apr-June	37	48
Santa Clara nr Pine Valley	4.7	89	Apr-June	--	5.3
COAL CREEK					
Coal Creek nr Cedar City	18.4	100	Apr-July	20	18.4
UPPER COLORADO					
Lake Powell Inflow	10000	134	Apr-July	--	7462

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
COAL CREEK	4	118	98
VIRGIN RIVER	5	143	107
PAROWAN CREEK	4	65	87
ENTERPRISE - NEW HARMONY	2	271	133
ESCALANTE RIVER	1	107	97
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
COLORADO	Lake Powell	25002.0	21348.0	21478.0	--
	Blue Mesa	829.5	438.1	375.0	--
VIRGIN	Gunlock	7.4	7.2	--	--
	Quail Creek	26.0	0.0	--	--

PEAK FLOWS <sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Coal Creek nr Cedar City	250-400	220
Virgin nr Hurricane	550-900	1092

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Birch Crossing	2/26	20	5.7	9.7	6.8
Brian Head	2/22	53	16.0	21.1	17.5
Harris Flat	2/23	32	9.0	4.1	8.4
Kolob-Crystal	2/23	57	18.9	16.0	16.8
Little Grassy	2/22	20	6.8	0.1	4.4
Long Flat	2/22	26	7.3	5.1	6.2
Midway Valley	2/23	61	20.5	16.4	18.4

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	2/23	17	6.5	0.9	5.3
SUSC Ranch	2/26	22	7.3	8.3	8.9
Tall Poles	2/26	39	10.3	18.3	12.6
Webster Flat	2/22	45	14.4	11.1	15.6
Yankee Reservoir	2/23	29	7.0	11.2	8.1

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SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
-----						
BEAR RIVER, UPPER (above Harer, Idaho)						
BIG PARK	8620	2/28/85	51	14.0	17.6	17.8
BURT'S-MILLER RANCH	7900	2/26/85	20	4.0	4.7	4.7
CCC CAMP	7000	2/25/85	45	11.4	11.9	11.4
HAYDEN FORK	9400	2/26/85	48	13.3	15.9	13.4
KELLEY RANGER STA.	8180	2/28/85	49	12.2	17.0	16.3
MONTE CRISTO R.S.	8960	2/24/85	65	22.2	26.2	22.1
POISON MEADOWS	8500	2/26/85	70	19.4	22.9	25.6
SALT RIVER SUMMIT	7700	2/28/85	48	11.8	13.9	14.5
SNIDER BASIN R.S.	8060	2/26/85	49	12.7	13.2	15.4
STILLWATER CAMP	8550	2/26/85	38	8.7	9.9	8.9
TRIAL LAKE	9960	2/26/85	64	19.4	22.3	20.8

BEAR RIVER, LOWER (below Harer, Idaho)

CHRISTENSEN RANCH		NO REPORT				
CUB RIVER R.S.	5450	2/25/85	33	8.3	14.5	8.6
DRY BASIN	7820	2/25/85	75	22.0	35.2	25.0
DRY CREEK FLAT	6360	2/25/85	31	8.6	15.8	7.8
EMIGRANT SUMMIT	7390	2/26/85	65	19.9	29.3	21.9
EMIGRATION CANYON	6500	2/26/85	37	9.9	13.0	9.9
FRANKLIN BASIN	8020	2/25/85	66	21.9	26.7	21.7
GARDEN CITY SUMMIT	7600	2/25/85	58	17.4	21.4	15.5
HORSESHOE BASIN		NO REPORT				
KLONDIKE NARROWS	7400	2/25/85	57	18.1	22.9	17.5
LIBERTY SPRING	8600	2/25/85	82	26.4	--	32.1
LITTLE BEAR (LOWER)	6000	2/24/85	38	10.5	14.6	9.3
LITTLE BEAR (UPPER)	6550	2/24/85	47	13.7	18.0	11.0
OXFORD MOUNTAIN	6800	2/25/85	35	8.6	15.1	9.7
SLUG CREEK DIVIDE	7230	2/27/85	45	12.2	15.9	15.1
STEEP HOLLOW #1	8500	2/25/85	89	30.8	38.5	31.1
STEEP HOLLOW #2	7700	2/25/85	69	22.0	29.2	22.9
STRAWBERRY CREEK	5820	2/26/85	43	11.8	17.4	9.9
STRAWBERRY-MINK DIV.	6720	2/25/85	62	18.0	27.8	19.2
TONY GROVE LAKE	8400	2/25/85	88	30.4	40.1	31.9
TONY GROVE R.S.	6250	2/25/85	45	12.3	16.8	11.1
WILLOW FLAT	6100	2/25/85	52	14.6	23.5	14.1

RAFT RIVER

CLEAR CREEK MEADOWS	9420	2/26/85	54	14.9	22.6	17.9
GEORGE PEAK	9000	2/26/85	58	16.5	31.0	21.6
ONE MILE SUMMIT	7330	2/26/85	18	5.2	7.6	6.2
VIPONT	7670	2/26/85	44	11.6	18.0	13.2

OGDEN RIVER

BEAVER CREEK-SKUNK	7150	2/24/85	38	12.2	16.3	11.2
BEN LOMOND PEAK	8000	2/24/85	96	32.4	54.5	31.4
BEN LOMOND TRAIL	6000	2/24/85	67	21.7	28.8	15.8
DRY BREAD POND	8350	2/24/85	54	16.3	22.1	16.2
MONTE CRISTO R.S.	8960	2/24/85	65	22.2	26.2	22.1
SAGEBRUSH FLAT	6300	2/24/85	24	5.6	9.2	4.8

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
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# WEBER RIVER

BEAVER CREEK R.S.	7500	2/26/85	31	7.6	10.5	7.8
CHALK CREEK #1	9100	2/26/85	65	19.1	23.1	18.1
CHALK CREEK #2	8200	2/26/85	48	12.4	14.5	12.2
CHALK CREEK #3	7500	2/26/85	30	7.5	8.0	6.7
EAST SHINGLE LAKE		NO REPORT				
FARMINGTON CANYON L.	6950	2/24/85	69	20.9	32.7	19.5
FARMINGTON CANYON	8000	2/24/85	81	28.4	40.1	25.6
HORSE RIDGE	8260	2/24/85	57	18.3	25.8	18.9
KILFOIL CREEK	7300	2/24/85	47	13.4	17.0	12.4
LOST CREEK RESERVOIR	6130	2/24/85	24	5.9	8.9	5.5
PARK CITY SUMMIT	9300	3/01/85	80	30.0	34.5	26.6
PARLEY'S CANYON SUM.	7500	2/27/85	55	16.8	23.1	15.9
PINE CANYON	8000	2/24/85	57	19.9	22.2	17.1
REDDEN MINE LOWER	8500	2/26/85	56	17.5	19.3	15.2
SERGEANT LAKES		NO REPORT				
SMITH & MOREHOUSE	7600	2/26/85	42	11.9	14.4	11.4
TRIAL LAKE	9960	2/26/85	64	19.4	22.3	20.8

# PROVO RIVER & UTAH LAKE

BEAVER CREEK DIVIDE	8280	2/26/85	38	9.0	12.4	11.3
CLEAR CREEK RIDGE #1	9200	2/25/85	54	16.8	21.1	16.3
CLEAR CREEK RIDGE #2	8000	2/25/85	45	12.6	15.6	12.2
CLEAR CREEK RIDGE #3	6600	2/25/85	30	8.0	10.5	7.5
DANIELS-STRAWBERRY	8000	2/25/85	49	15.5	15.8	12.9
HOBBLE CREEK SUMMIT	7420	2/25/85	48	13.4	19.0	12.8
FAYSON R.S.	8050	2/22/85	54	17.0	24.6	16.4
SOAPSTONE R.S.	7800	2/26/85	38	10.2	13.1	11.3
TIMPANOGOS DIVIDE	8140	3/05/85	71	22.8	19.8	22.1
TRIAL LAKE	9960	2/26/85	64	19.4	22.3	20.8

# JORDAN RIVER & GREAT SALT LAKE

LAMES CANYON	7400	2/27/85	50	16.9	20.0	13.8
MILL CREEK	6950	3/01/85	55	16.8	21.9	16.1
MILL D SOUTH FORK	7400	3/01/85	55	18.2	22.9	17.0
PARLEY'S CANYON SUM.	7500	2/27/85	55	16.8	23.1	15.9
SILVER LAKE(BRIGHT.)	8730	2/26/85	69	22.6	25.0	20.4
SNOWBIRD GAD VALLEY		NO REPORT				

# TOOELE VALLEY WATERSHEDS AND VERNON CREEK

BEVAN'S CABIN	6450	2/27/85	36	9.8	--	8.3
DESERET PEAK		NO REPORT				
MIDDLE CANYON	7000	2/27/85	45	13.0	--	11.9
ROCKY BASIN-SETTLEMT	8900	2/27/85	69	23.4	39.0	20.4
VERNON CREEK	7500	3/01/85	43	11.7	14.9	8.9

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
-----						
UPPER GREEN RIVER in UTAH (above Duchesne River)						
ASHLEY TWIN LAKES		NO REPORT				
BLACK'S FORK GS-EF	9340	2/26/85	33	7.1	9.3	7.6
BLACK'S FORK JUNCTN	8930	2/26/85	34	7.7	9.6	7.6
BUCK PASTURE		NO REPORT				
BURNT CREEK	7900	3/01/85	20	4.1	5.0	4.3
GRIZZLY RIDGE	8500	2/28/85	36	8.1	9.8	9.5
HENRY'S FORK		NO REPORT				
HEWINTA G.S.	9500	2/26/85	31	6.7	9.8	7.5
HICKERSON PARK	9100	2/26/85	30	5.2	--	5.4
HOLE-IN-THE-ROCK		NO REPORT				
HOLE-IN-THE-ROCK GS		NO REPORT				
KING'S CABIN (UPPER)	8730	2/26/85	34	7.1	9.4	8.5
MIDDLE BEAVER CREEK		NO REPORT				
REYNOLDS PARK		NO REPORT				
SPIRIT LAKE	10300	2/26/85	45	9.6	11.5	10.1
STEEL CREEK PARK	10100	2/26/85	53	12.2	15.9	13.1
TROUT CREEK	9400	2/26/85	41	8.8	8.3	8.5
DUCHESNE RIVER						
ATWOOD LAKE	10500	2/26/85	40	8.5	--	12.2
BROWN DUCK RIDGE	10600	2/25/85	61	16.4	19.5	15.8
CHEPETA-WHITERKS. LK		NO REPORT				
CURRENT CREEK	8000	2/25/85	41	11.1	10.5	9.6
DANIELS-STRAWBERRY	8000	2/25/85	49	15.5	15.8	12.9
EAST PORTAL	7560	3/01/85	46	14.3	14.2	10.2
FIVE POINT LAKE		NO REPORT				
INDIAN CANYON	9100	2/25/85	43	11.3	10.5	10.7
JACKSON PARK	10600	2/25/85	44	10.1	11.9	11.8
LAKEFORK BASIN		NO REPORT				
LAKEFORK MOUNTAIN #1	10200	2/25/85	37	8.5	9.8	9.5
LAKEFORK MOUNTAIN #3	8400	2/25/85	30	6.4	5.5	5.9
LIGHTNING LAKE		NO REPORT				
MOSBY MOUNTAIN (LOW)	9500	2/27/85	34	7.7	8.4	8.4
PARADISE PARK	10100	2/26/85	45	11.6	12.3	10.9
ROCK CREEK	7900	2/25/85	30	8.1	7.5	6.5
STRAWBERRY DIVIDE	8400	3/01/85	55	17.0	23.0	16.8
PRICE RIVER						
DRY VALLEY DIVIDE AL	8100	2/24/85	38	10.8	14.5	11.2
MUD CREEK	8600	2/24/85	43	12.0	17.1	11.8
WHITE RIVER #1	8550	2/25/85	42	12.0	16.0	11.9
WHITE RIVER #3	7400	2/25/85	28	7.6	12.3	7.9
SAN RAFAEL RIVER						
BUCK FLAT	9800	2/24/85	48	14.2	22.8	14.4
HUNTINGTON-HORSESHOE	9800	2/24/85	54	18.4	31.8	19.9
ORANGE OLSEN	7200	2/24/85	23	5.6	7.0	4.4
RED PINE RIDGE	9200	2/24/85	48	15.2	24.0	14.7
SEELEY CREEK R.S.	10000	2/24/85	45	14.6	28.2	13.9
STUART R.S.	7950	2/24/85	28	7.8	13.5	8.7
UPPER JOES VALLEY	8900	2/24/85	37	11.1	15.4	9.3
WRIGLEY CREEK	9000	2/24/85	38	9.1	13.9	9.7

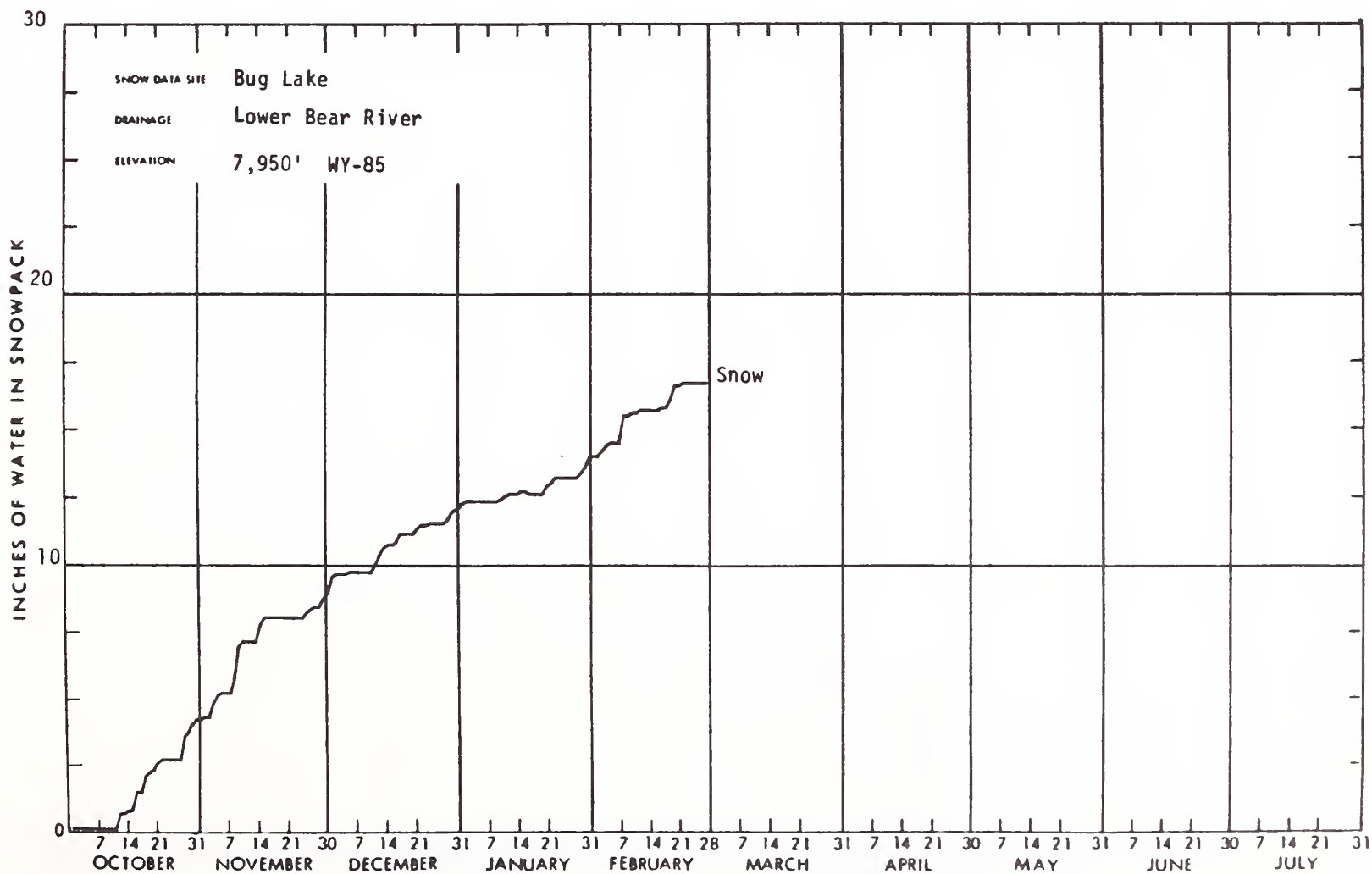
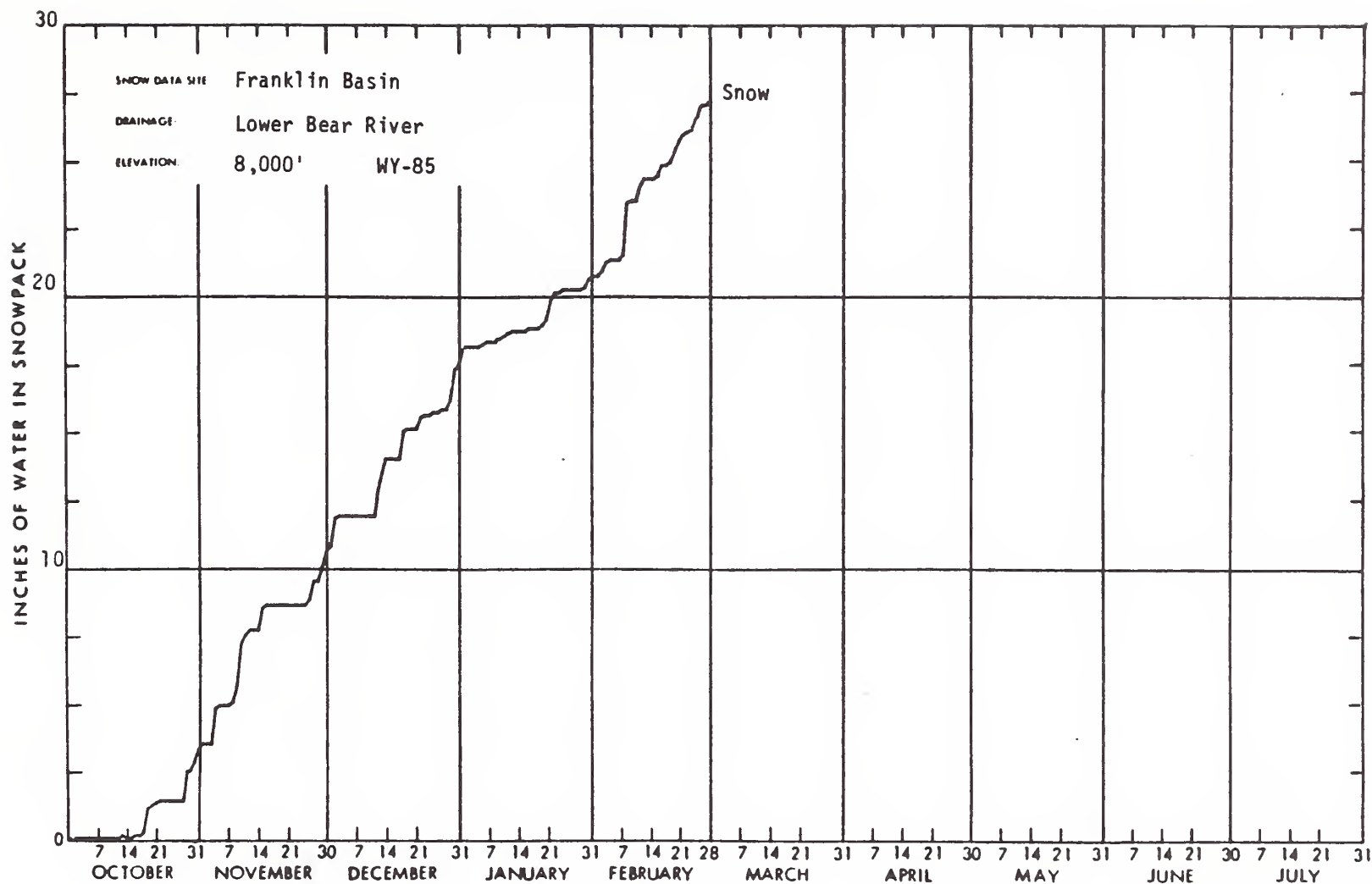


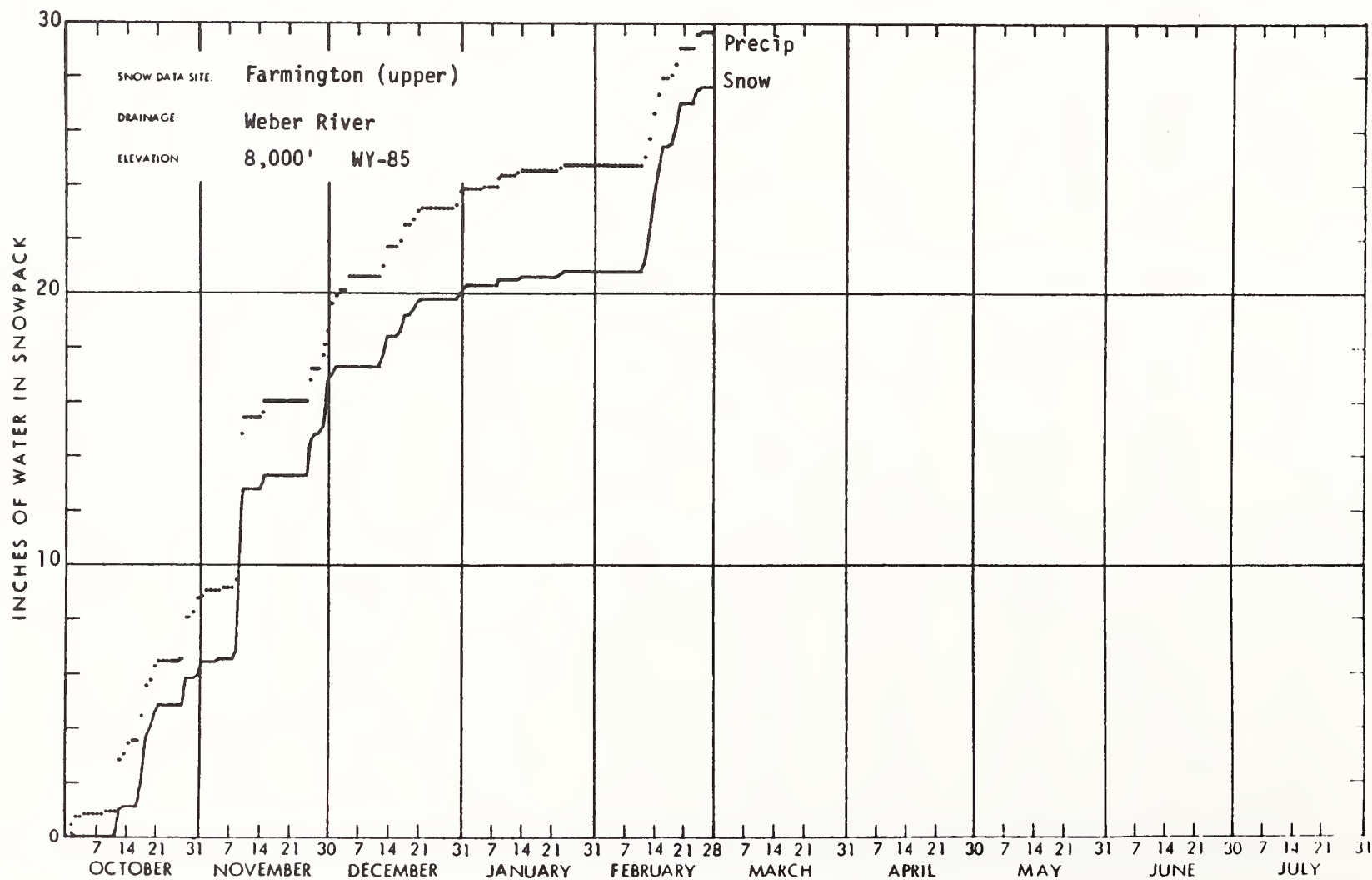
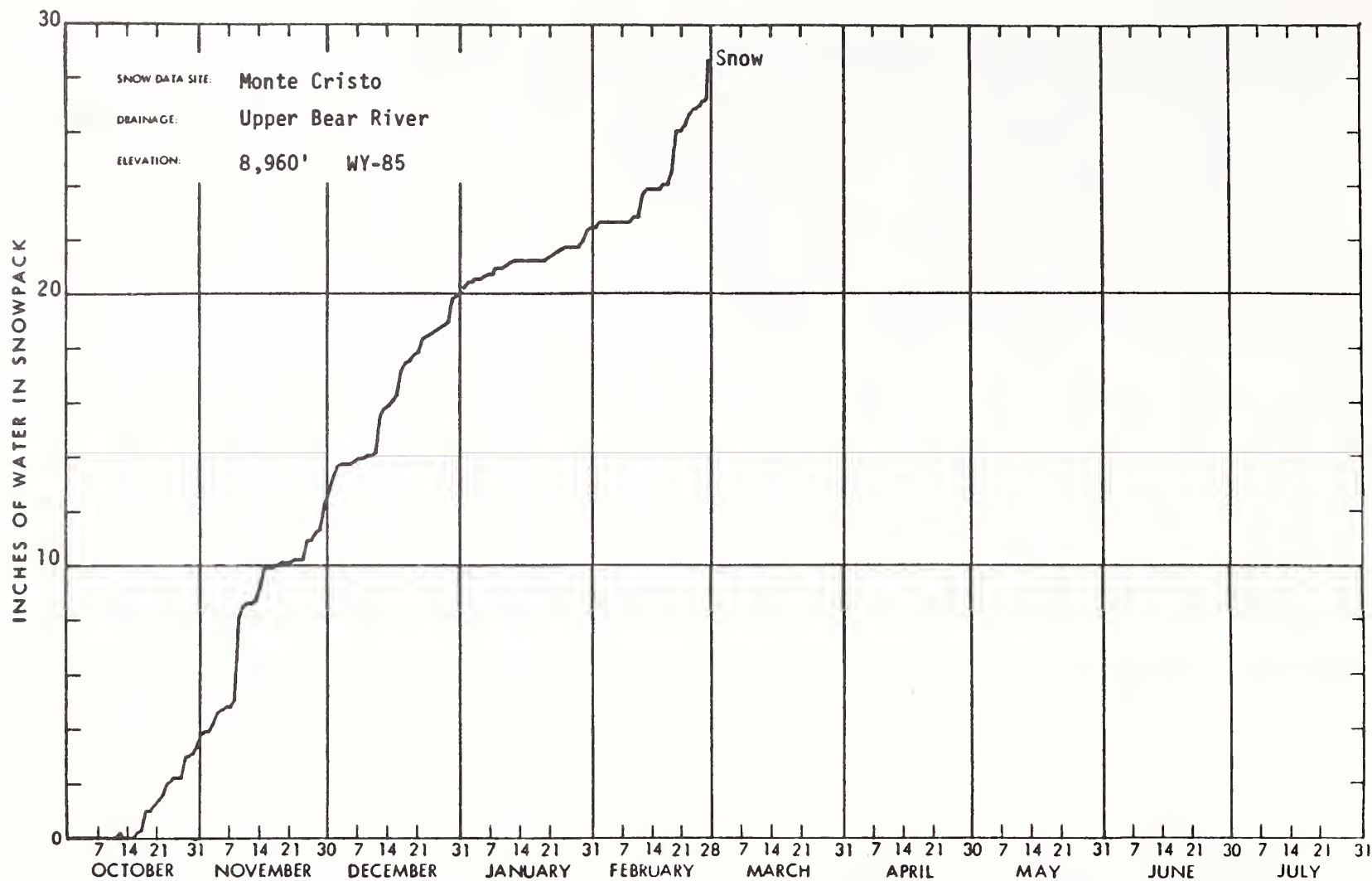
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
-----						
MUDDY RIVER						
BLACK'S FORK	9200	2/24/85	38	9.8	18.8	11.2
DILL'S CAMP	9200	2/24/85	34	9.0	15.1	10.6
FREMONT RIVER						
BLACK'S FLAT-U.M. CK	9400	2/23/85	37	9.2	13.6	9.3
DONKEY RESERVOIR		NO REPORT				
FISH LAKE	8700	2/23/85	26	6.3	18.6	6.9
JOHNSON VALLEY	8850	2/23/85	25	6.4	11.4	6.2
LASAL MOUNTAINS						
LASAL MOUNTAIN LOWER	8800	2/28/85	25	3.8	11.4	7.8
LASAL MOUNTAIN (UPP)	9850	2/28/85	44	9.2	17.2	12.4
BLUE MOUNTAINS						
BUCKBOARD FLAT	9000	2/27/85	46	11.4	11.5	11.2
CAMP JACKSON	8600	2/27/85	48	12.4	10.1	11.5
MONTICELLO PARK		NO REPORT				
UPPER SEVIER RIVER (south of Richfield, Utah)						
BOX CREEK	9300	2/23/85	41	10.7	17.9	11.2
BRYCE CANYON	8000	2/28/85	20	4.6	4.4	4.7
CASTLE VALLEY	9580	2/22/85	36	10.5	14.1	11.5
DUCK CREEK R.S.	8700	2/23/85	42	11.9	7.8	12.4
HARRIS FLAT	7700	2/23/85	32	9.0	4.1	8.4
KIMBERLY MINE(UPPER)	9300	2/22/85	53	14.0	19.7	12.8
LONG VALLEY JCT.	7500	2/23/85	17	6.5	.9	5.3
MIDWAY VALLEY	9800	2/23/85	61	20.5	16.4	18.4
PANQUITCH LAKE	8200	2/22/85	18	4.8	6.6	4.5
SQUAW SPRINGS	9300	2/23/85	24	6.2	10.9	6.6
WIDTSOE-ESCALANTE #3	9500	2/23/85	38	9.3	8.7	9.6
LOWER SEVIER RIVER (including San Pitch River)						
BEAVER DAMS	8000	2/24/85	33	9.0	18.9	10.4
FARNSWORTH LAKE	9600	2/24/85	53	15.4	24.4	15.3
G.B.R.C. HEADQUARTER	8700	2/24/85	38	12.7	25.2	13.9
G.B.R.C. MEADOWS	10000	2/24/85	62	21.5	30.8	19.4
GOOSEBERRY R.S.	8000	2/24/85	35	8.4	16.5	10.1
MAMMOTH-COTTONWOOD	8800	2/24/85	54	18.3	27.8	18.1
MIDDLE FORK		NO REPORT				
MT. BALDY R.S.	9500	2/24/85	61	19.4	32.3	19.8
DAK CREEK	7760	2/22/85	39	9.5	16.8	13.1
PICKLE KEG SPRING	9600	2/24/85	41	11.8	25.7	13.2
PINE CREEK	8800	2/22/85	47	13.9	27.2	13.5
REES'S FLAT	7300	2/22/85	44	11.8	16.8	10.6
SHINGLE MILL	6200	2/28/85	29	7.2	15.6	7.6
THISTLE FLAT		NO REPORT				

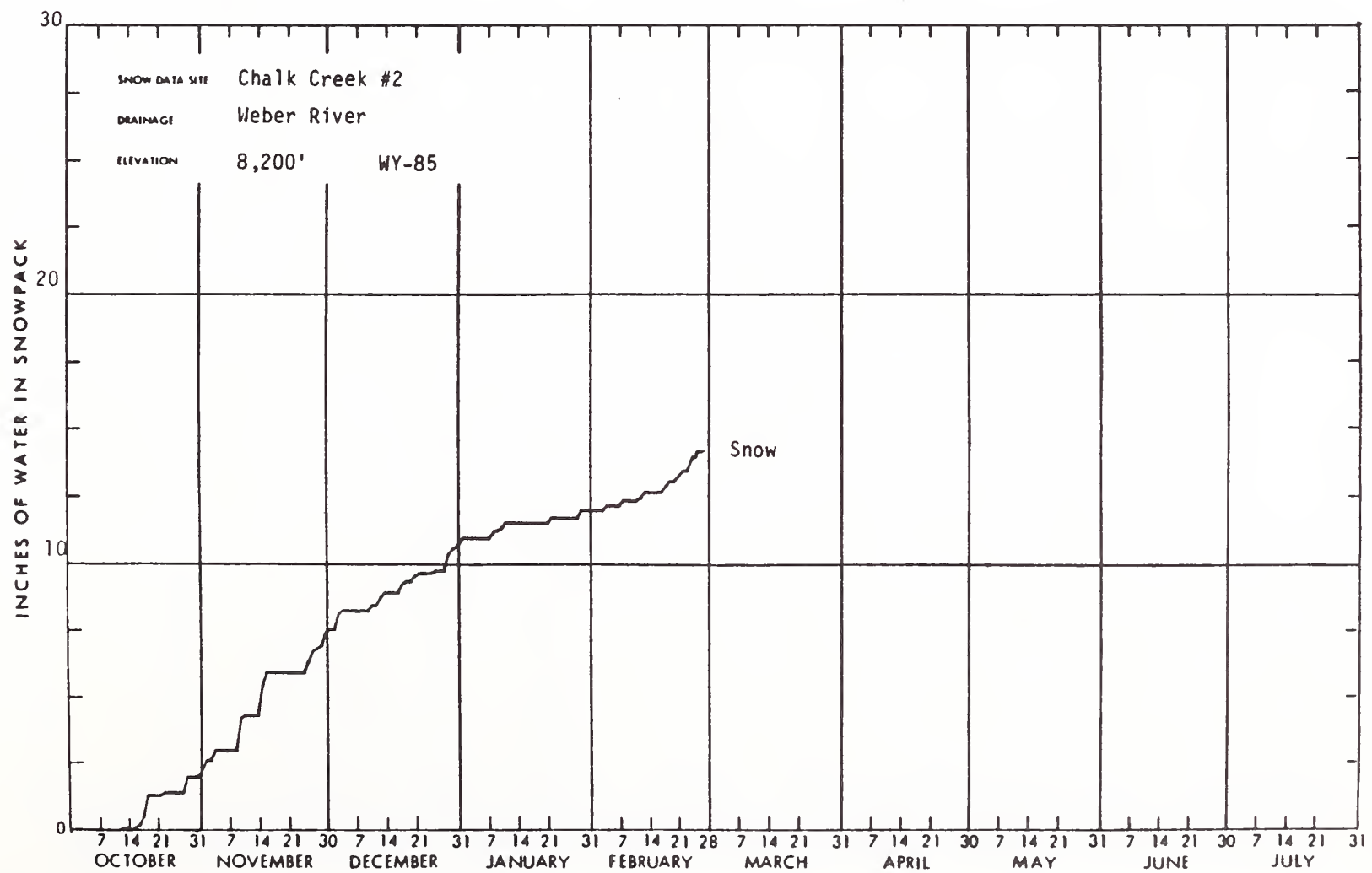
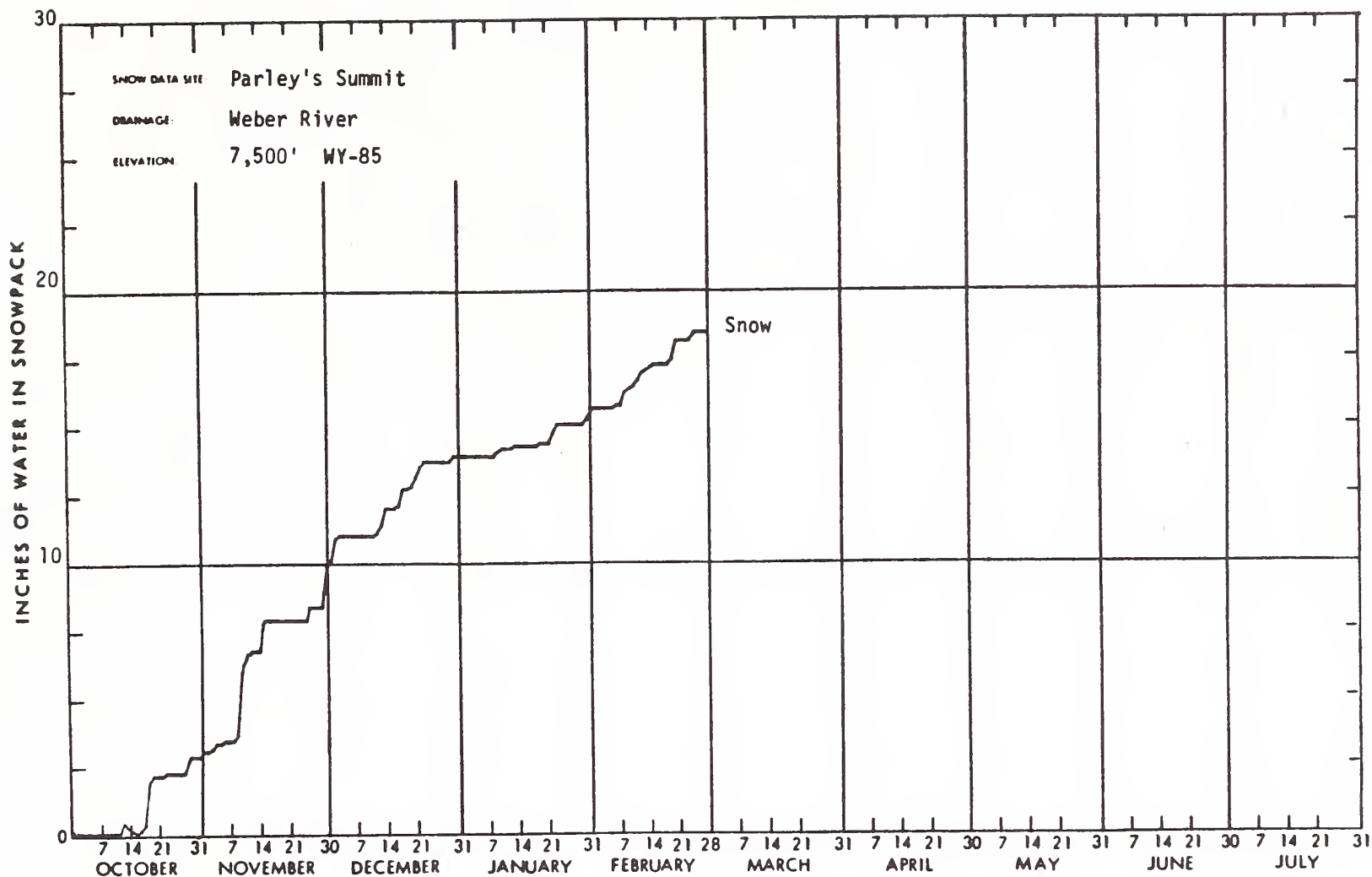
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
-----						
BEAVER RIVER						
BEAVER RACE TRACK		NO REPORT				
BIG FLAT	10290	2/22/85	55	14.9	23.8	14.0
MERCHANT VALLEY (UP)	8750	2/22/85	43	11.4	16.3	11.1
OTTER LAKE	9600	2/22/85	44	11.9	17.5	11.2
PAROWAN						
BIRCH CROSSING	8100	2/26/85	20	5.7	9.7	6.8
BRIAN HEAD	10000	2/22/85	53	16.0	21.1	17.5
TALL POLES	8800	2/26/85	39	10.3	18.3	12.6
YANKEE RESERVOIR	8700	2/23/85	29	7.0	11.2	8.1
ESCALANTE RIVER						
DONKEY RESERVOIR		NO REPORT				
WIDTSOE-ESCALANTE #3	9500	2/23/85	38	9.3	8.7	9.6
ENTERPRISE TO NEW HARMONY DRAINAGES						
LITTLE GRASSY CREEK	6100	2/22/85	20	6.8	.1	4.4
LONG FLAT	8000	2/22/85	26	7.3	5.1	6.2
COAL CREEK						
CEDAR CITY GOLF COUR	5800	2/26/85	0	.0	.1	.1
MIDWAY VALLEY	9800	2/23/85	61	20.5	16.4	18.4
SUSC RANCH	8200	2/26/85	22	7.3	8.3	8.9
WEBSTER FLAT	9200	2/22/85	45	14.4	11.1	15.6
VIRGIN RIVER						
HARRIS FLAT	7700	2/23/85	32	9.0	4.1	8.4
KOLOB-CRYSTAL	9250	2/23/85	57	18.9	16.0	16.8
LONG VALLEY JCT.	7500	2/23/85	17	6.5	.9	5.3
MIDWAY VALLEY	9800	2/23/85	61	20.5	16.4	18.4
WEBSTER FLAT	9200	2/22/85	45	14.4	11.1	15.6



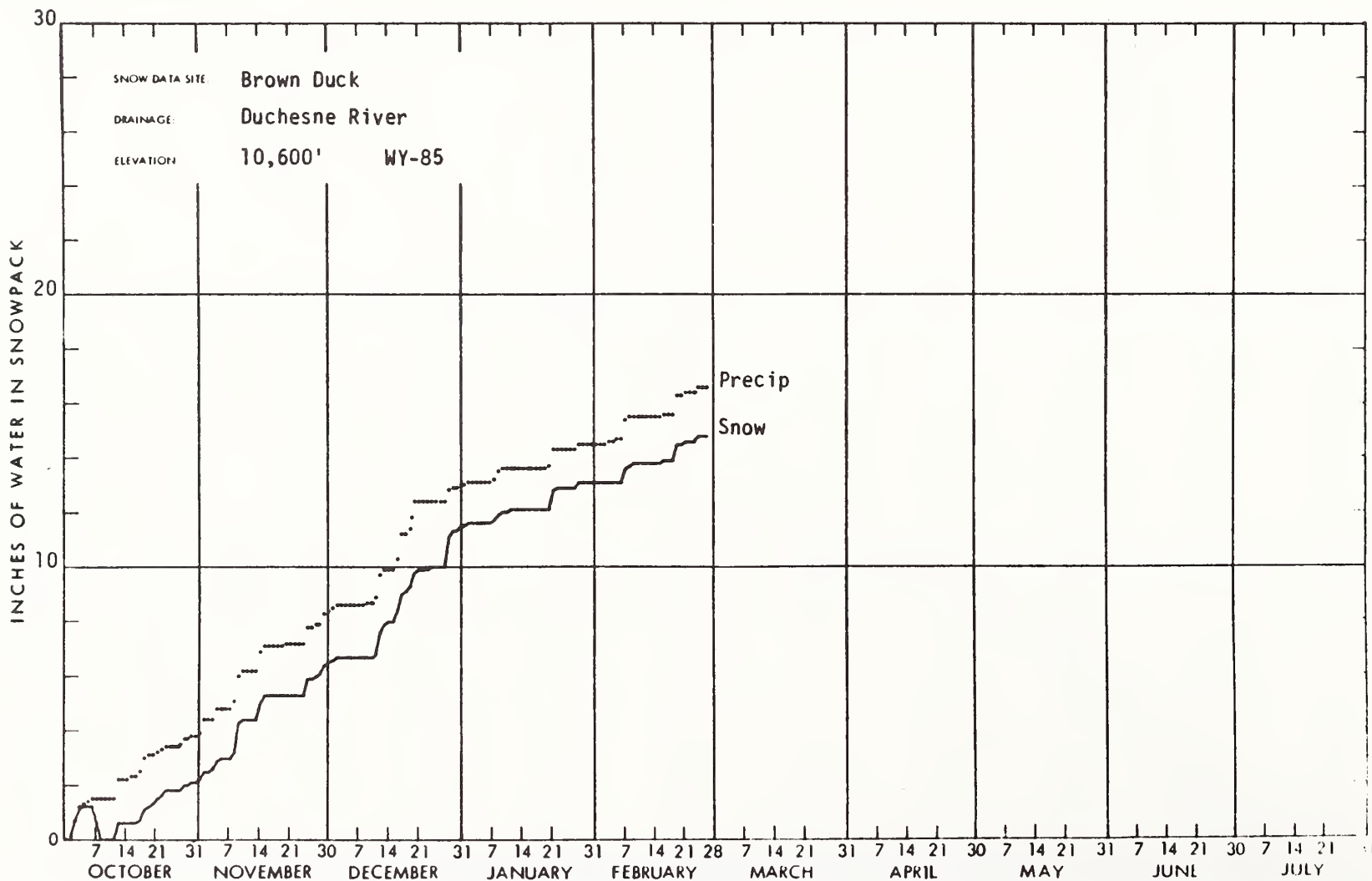
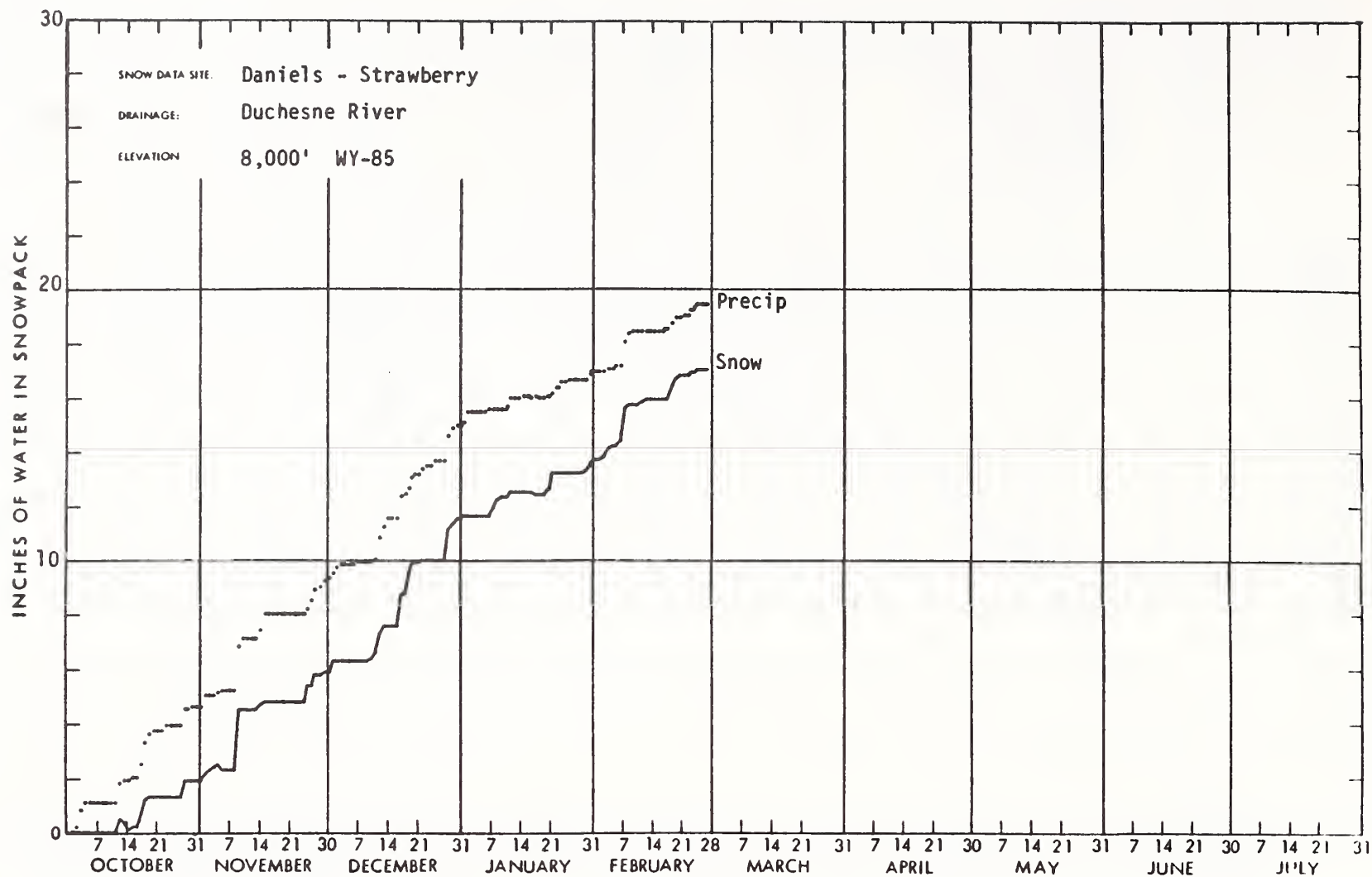


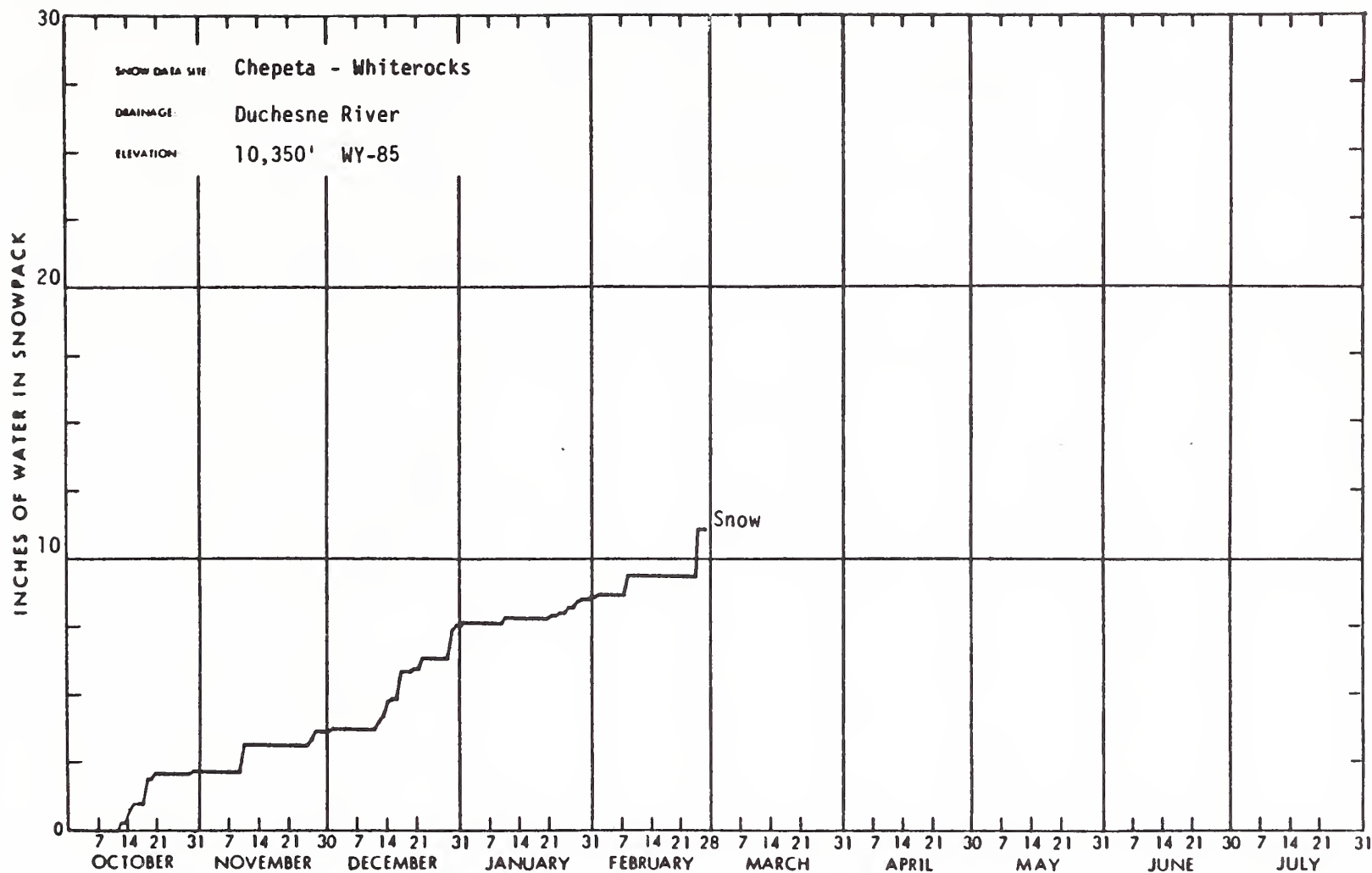




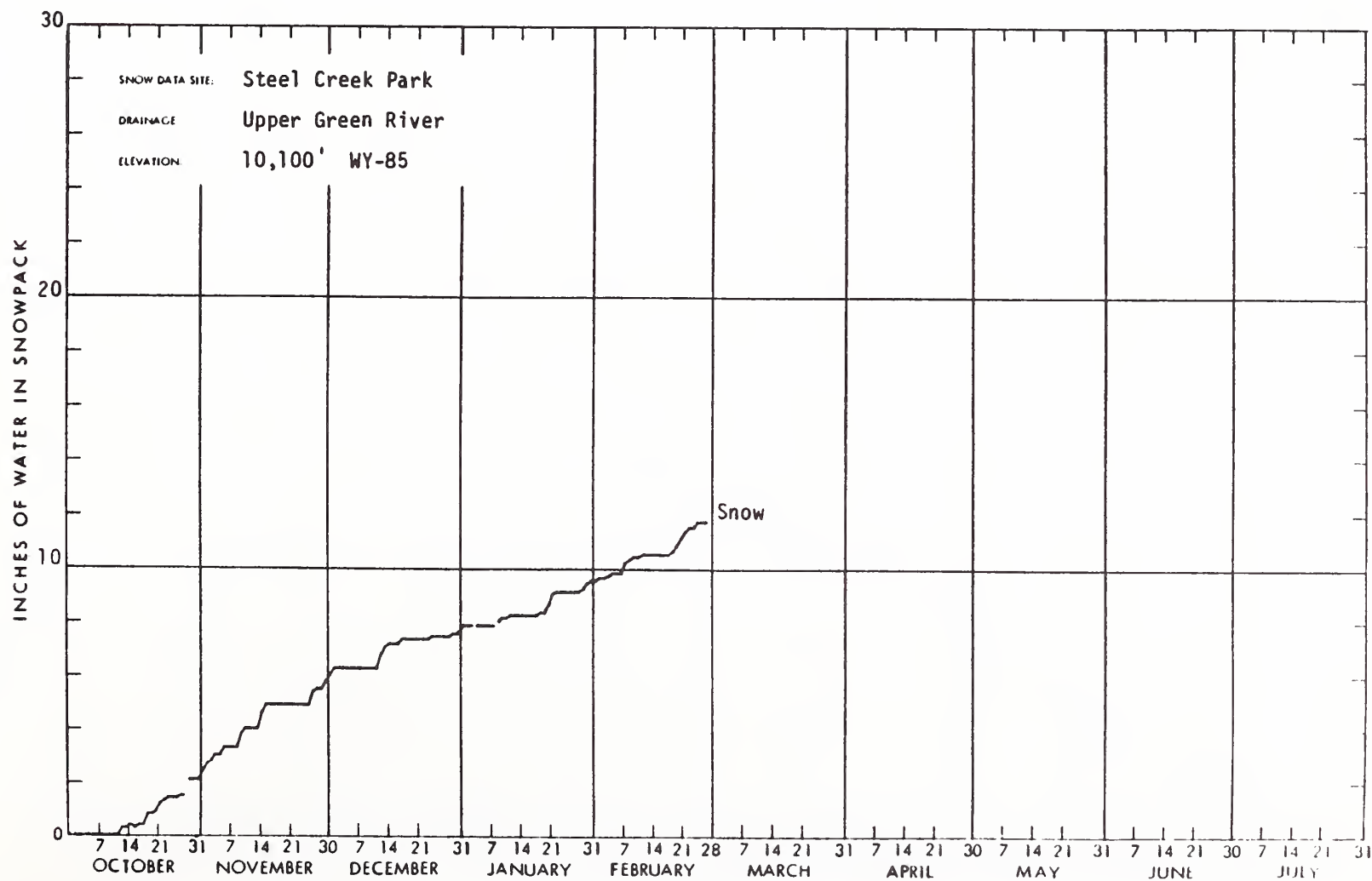


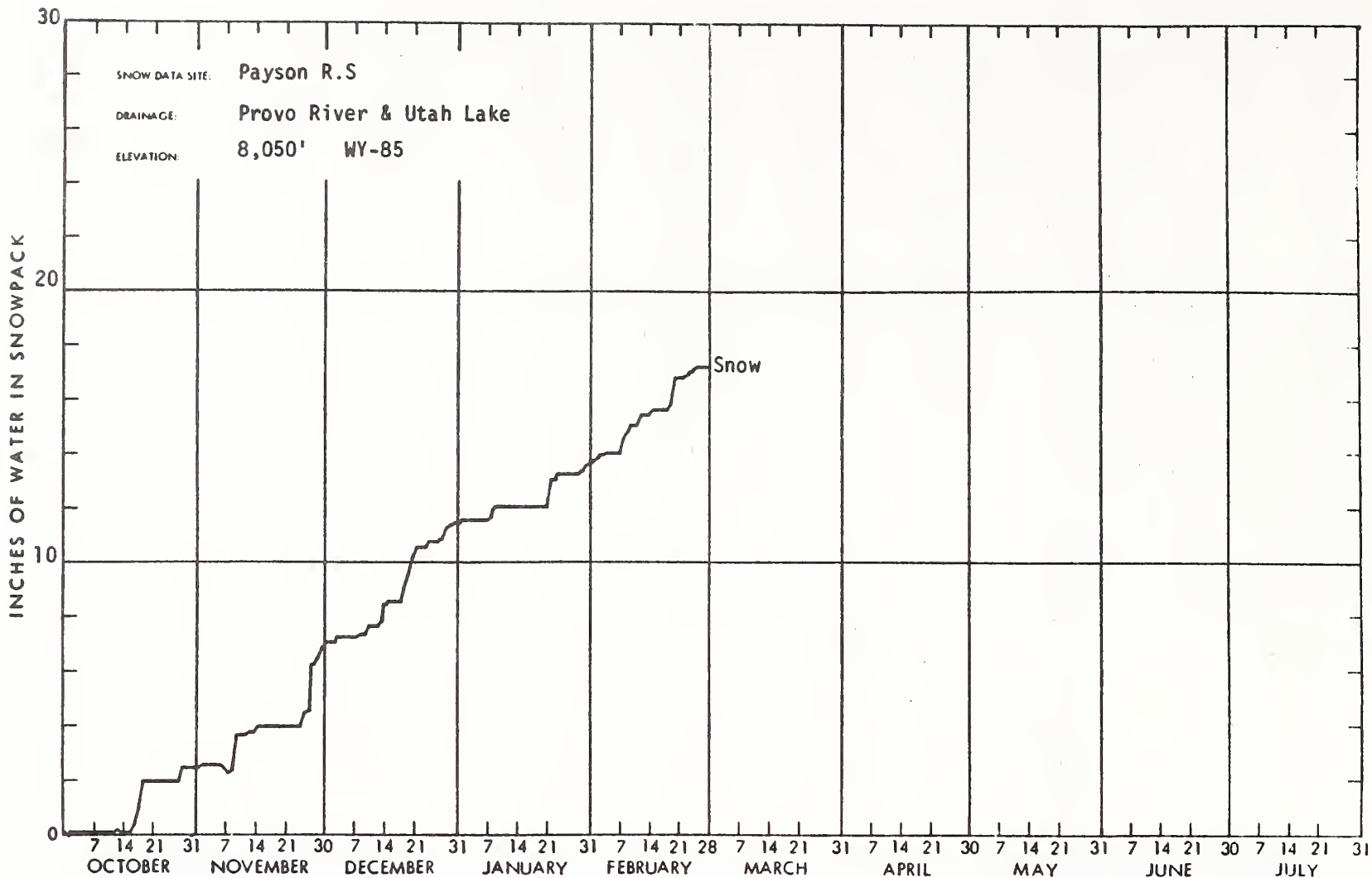




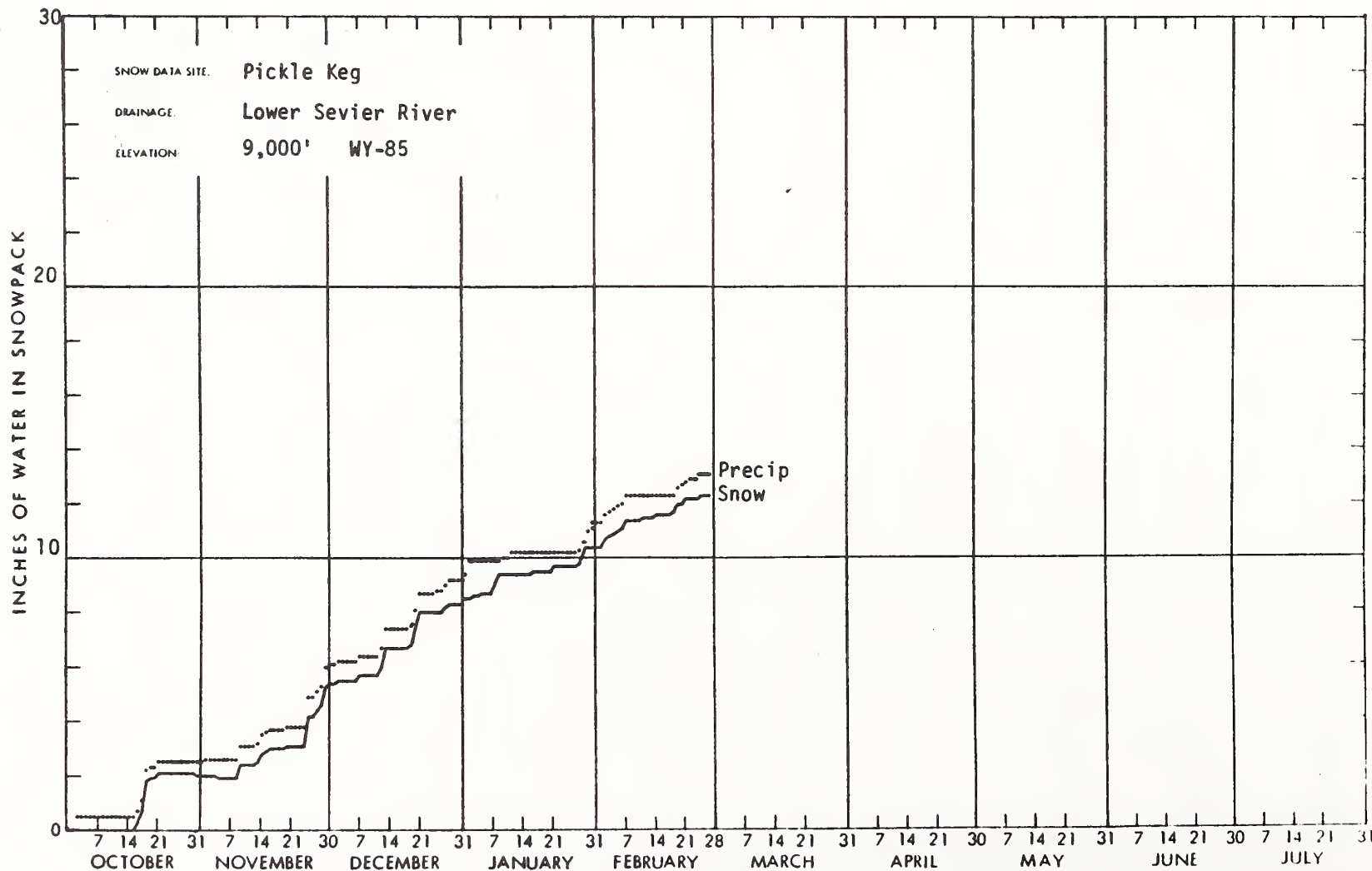


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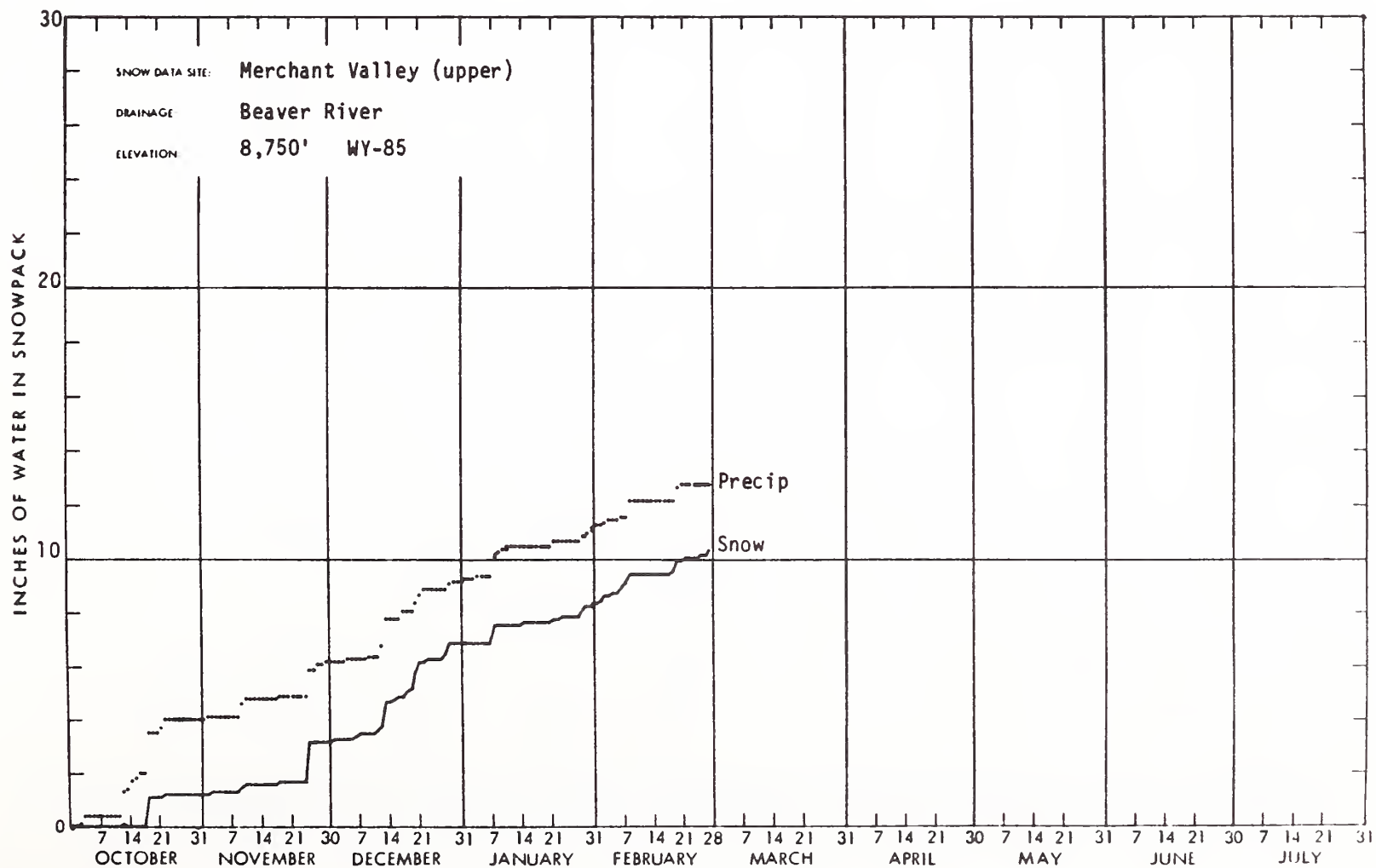
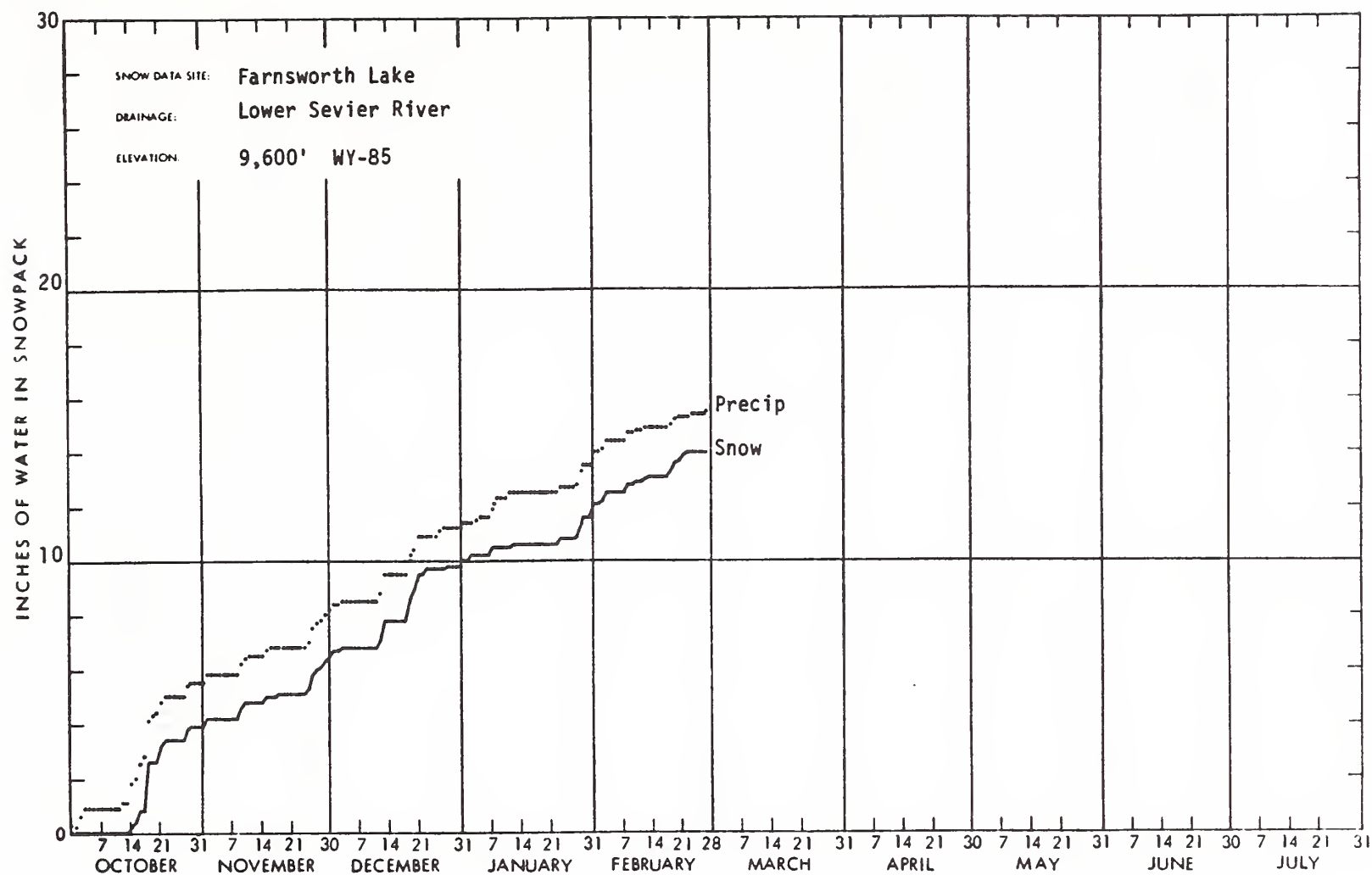


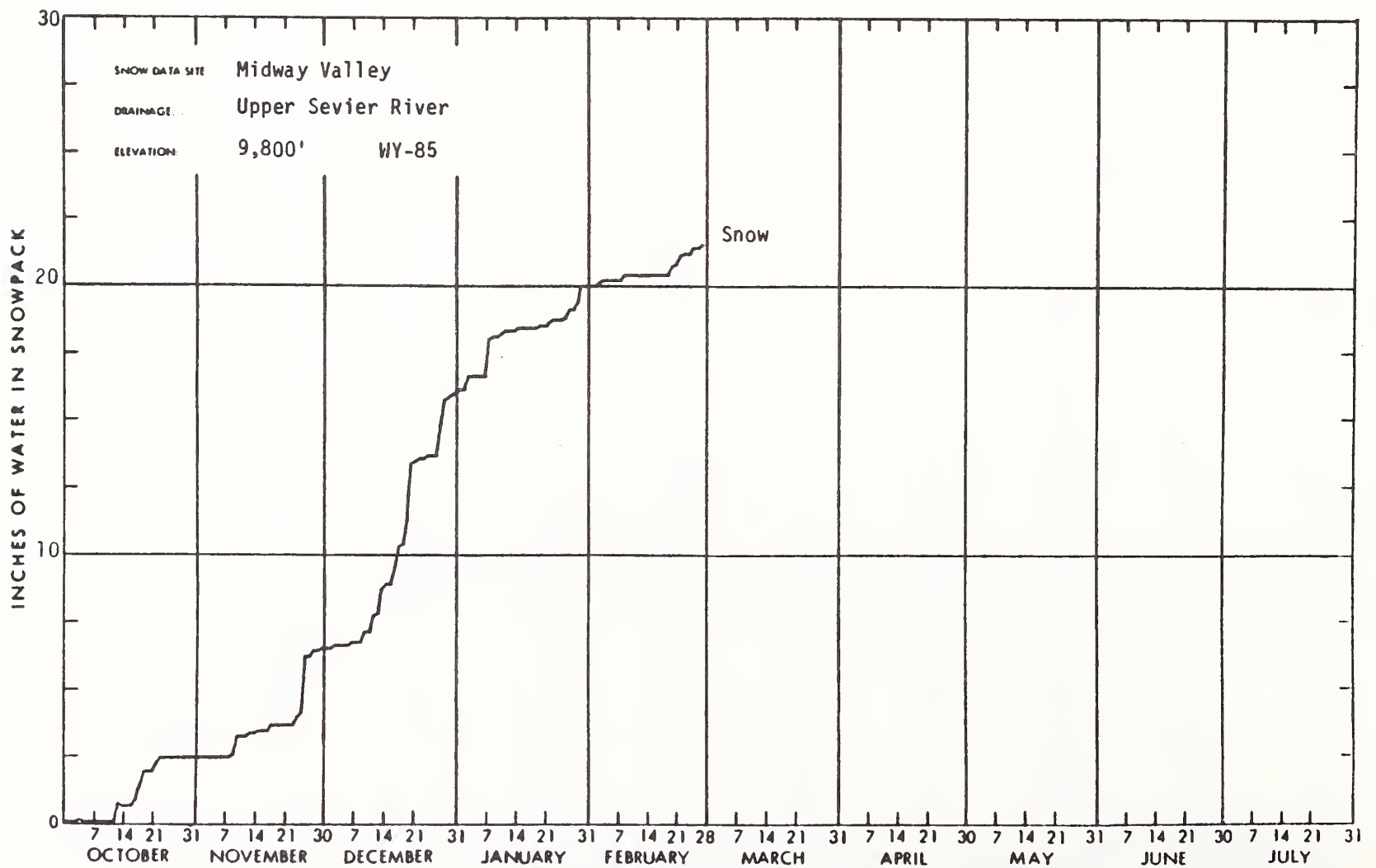
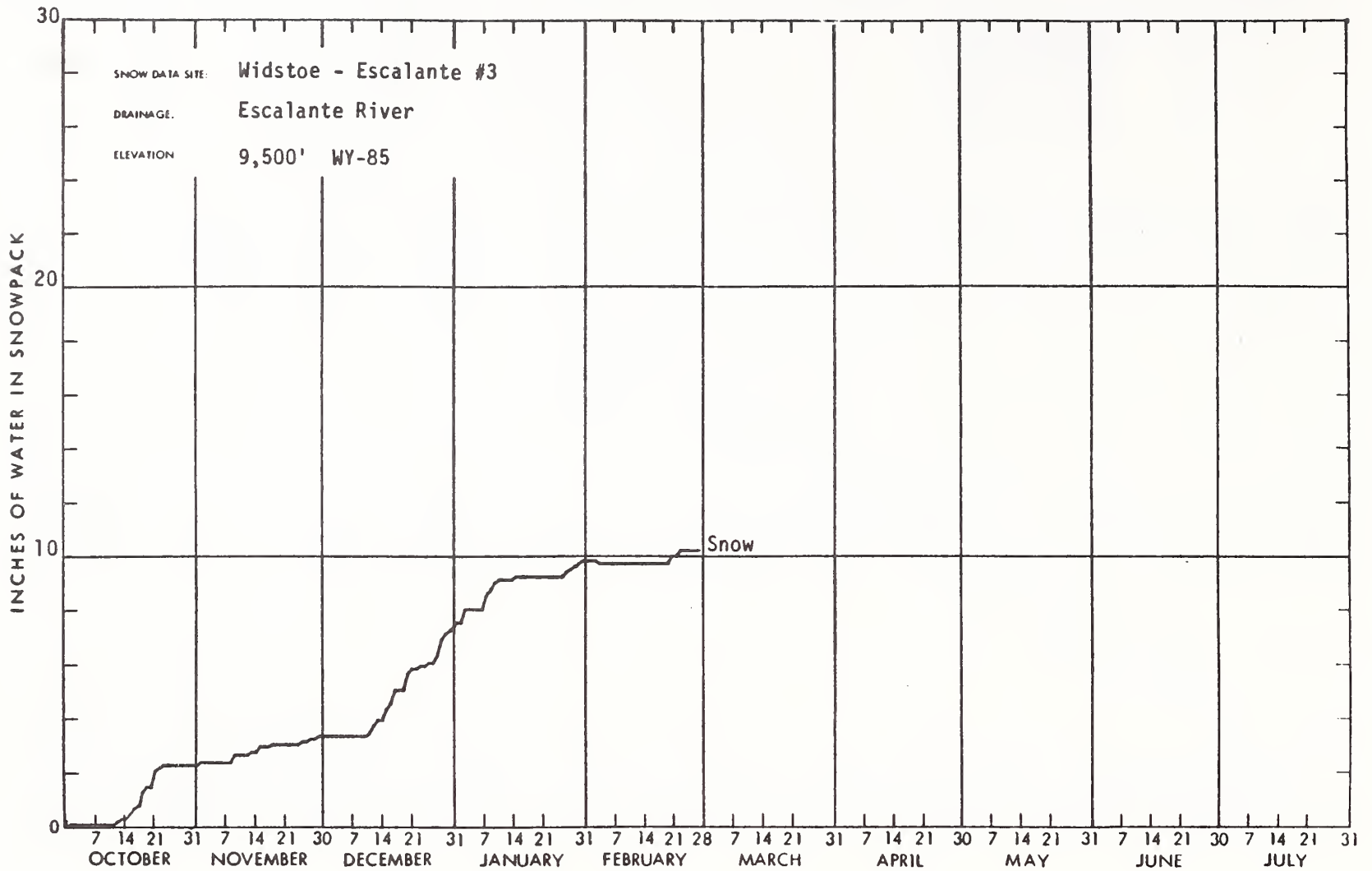


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# **Agencies Cooperating in Utah Snow Surveys**

## **U. S. GOVERNMENT AGENCIES**

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

## **STATE AGENCIES**

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## **MUNICIPALITIES**

- Manti
- Salt Lake City

## **ORGANIZED PUBLIC AGENCIES**

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
FEDERAL BLDG., - ROOM 4012  
125 SOUTH STATE ST.  
SALT LAKE CITY, UTAH 84138

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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*